

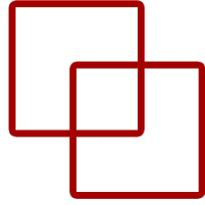
Presentación



Dr. Manuel Castillo-Cara
www.manuelcastillo.eu

Departamento de Inteligencia Artificial
Escuela Técnica Superior de Ingeniería Informática
Universidad Nacional de Educación a Distancia (UNED)

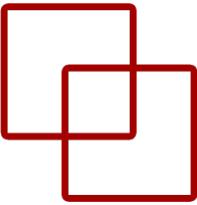
Preliminar



- Improving Deep Learning by Exploiting Synthetic Images © 2024 by Manuel Castillo-Cara is licensed under Attribution-NonCommercial 4.0 International



Índice

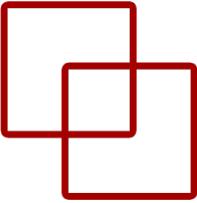


- Curriculum Vitae
- Estudiar en la UNED
- Líneas de investigación

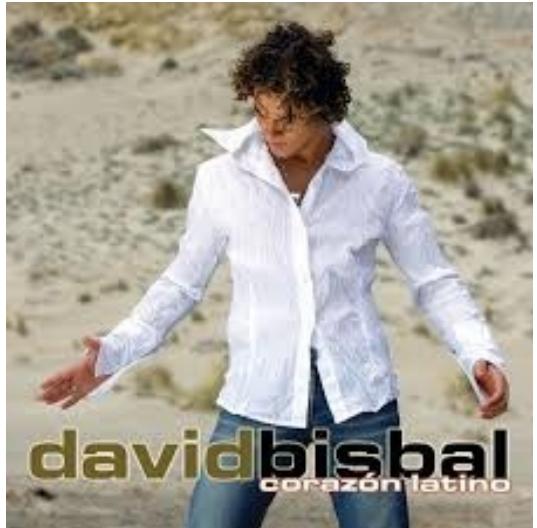


Curriculum Vitae

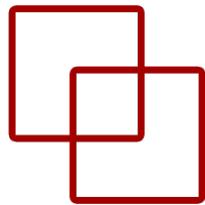
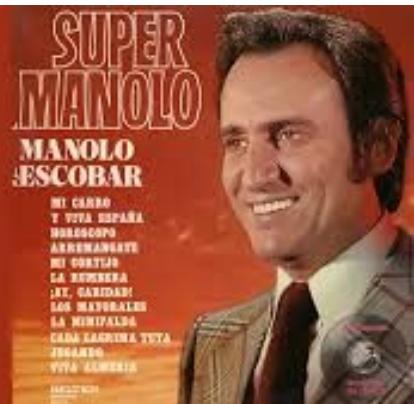
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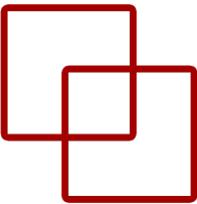
Almería



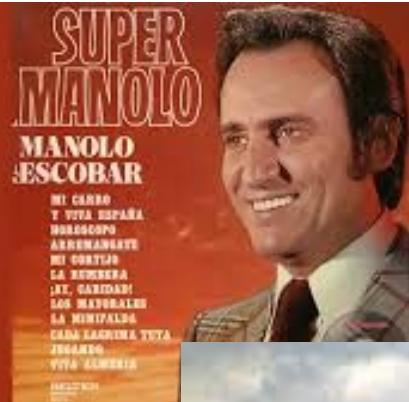
- 01. Pájaro Ciego
- 02. Madrecita M^a Del Carmen
- 03. Que Viva España
- 04. Tu Nombre Anita
- 05. Mi Canción Es Para Ti
- 06. Mi Pequeña Flor
- 07. Que Bonita Es Mi Niña
- 08. Niña De Los Ojos Verdes
- 09. Mi Carru
- 10. Mientras Tú Me Vivirás
- 11. Ni Se Compra Ni Se Vende
- 12. Escribiente
- 13. Los Mayarales
- 14. Ay, Mi Sombra
- 15. Solo Te Pido
- 16. El Positivo No Se Equivoca
- 17. La Morena De Mi Caja
- 18. En Tierra Extranja
- 19. Valencia
- 20. Mi Canción Es Para Ti



Almería

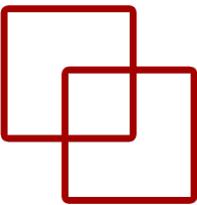


- 01. Pájaro Ciego
- 02. Madrecita M^a Del Carmen
- 03. Que Viva España
- 04. Tu Nombre Anita
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- 06. Mi Pequeña Flor
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- 09. Mi Carru
- 10. Mientras Tú Me Vivirás
- 11. Ni Se Compra Ni Se Vende
- 12. Escribiente
- 13. Los Mayarales
- 14. Ay, Mi Sombra
- 15. Solo Te Pido
- 16. El Positivo No Se Equivoca
- 17. La Morena De Mi Copia
- 18. En Tierra Exótica
- 19. Valencia
- 20. Mi Canción Es Para Ti



Imágenes tomadas de diferentes sitios de internet para una finalidad interna y no pública

Almería



01. Pájaro Ciego
02. Madrecita M^a Del Carmen
03. Que Viva España
04. Tu Nombre Aníta
05. Mi Canción Es Para Ti
06. Mi Pequeña Flor
07. Que Bonita Es Mi Niña
08. Niña De Los Ojos Verdes
09. Mi Carruaje
10. Mientras Tú Me Vivirás
11. Ni Se Compra Ni Se Vende
12. Escribiente
13. Los Mayarales
14. Ay, Mi Sombra
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16. El Positivo No Se Equivoca
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18. En Tierra Exótica
19. Valencia
20. Mi Canción Es Para Ti



Nicolás Salmerón fotografiado por Compañy,
publicado en la revista *Nuevo Mundo*
el 24 de septiembre de 1908.



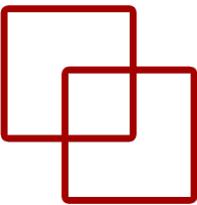
Presidente del Poder Ejecutivo de la
República Española

18 de julio de 1873-7 de septiembre de 1873

Predecesor Francisco Pi y Margall

Sucesor Emilio Castelar

Almería



Francisco Pi y Margall
as Salmerón fotografiado por Compañy,
publicado en la revista *Nuevo Mundo*
el 24 de septiembre de 1908.



dente del Poder Ejecutivo de la
República Española

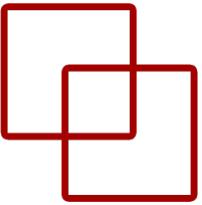
io de 1873-7 de septiembre de 1873

or Francisco Pi y Margall

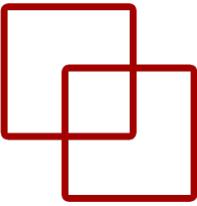
Emilio Castelar

Imágenes tomadas de diferentes sitios de internet para una finalidad interna y no pública

Doctorado - UCLM Albacete

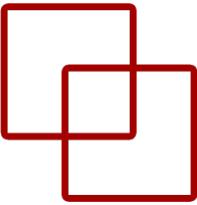


Doctorado - UCLM Albacete



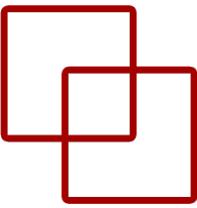
Imágenes tomadas de diferentes sitios de internet para una finalidad interna y no pública

Doctorado - UCLM Albacete



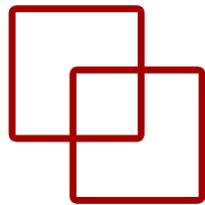
Imágenes tomadas de diferentes sitios de internet para una finalidad interna y no pública

UNI

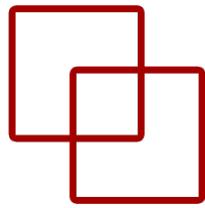


Imágenes tomadas de diferentes sitios de internet para una finalidad interna y no pública

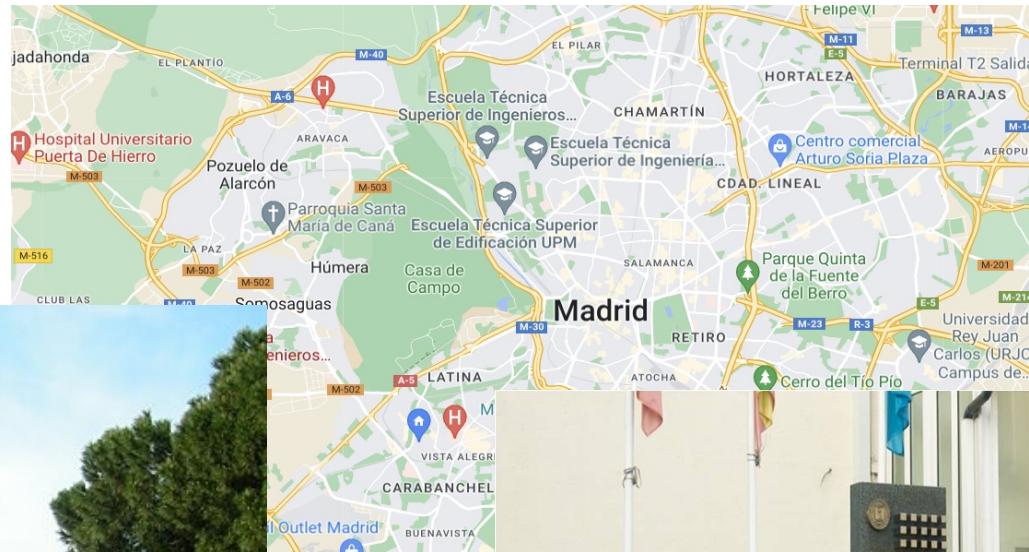
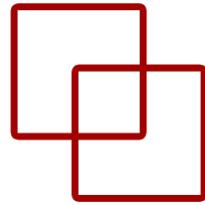
IUT-SCi



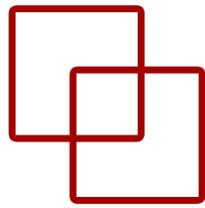
Imágenes tomadas de diferentes sitios de internet para una finalidad interna y no pública



OEG - UPM



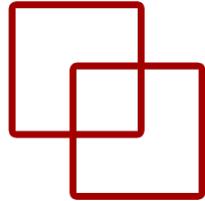
UNED





Estudiar en la UNED

UNED como universidad en Perú



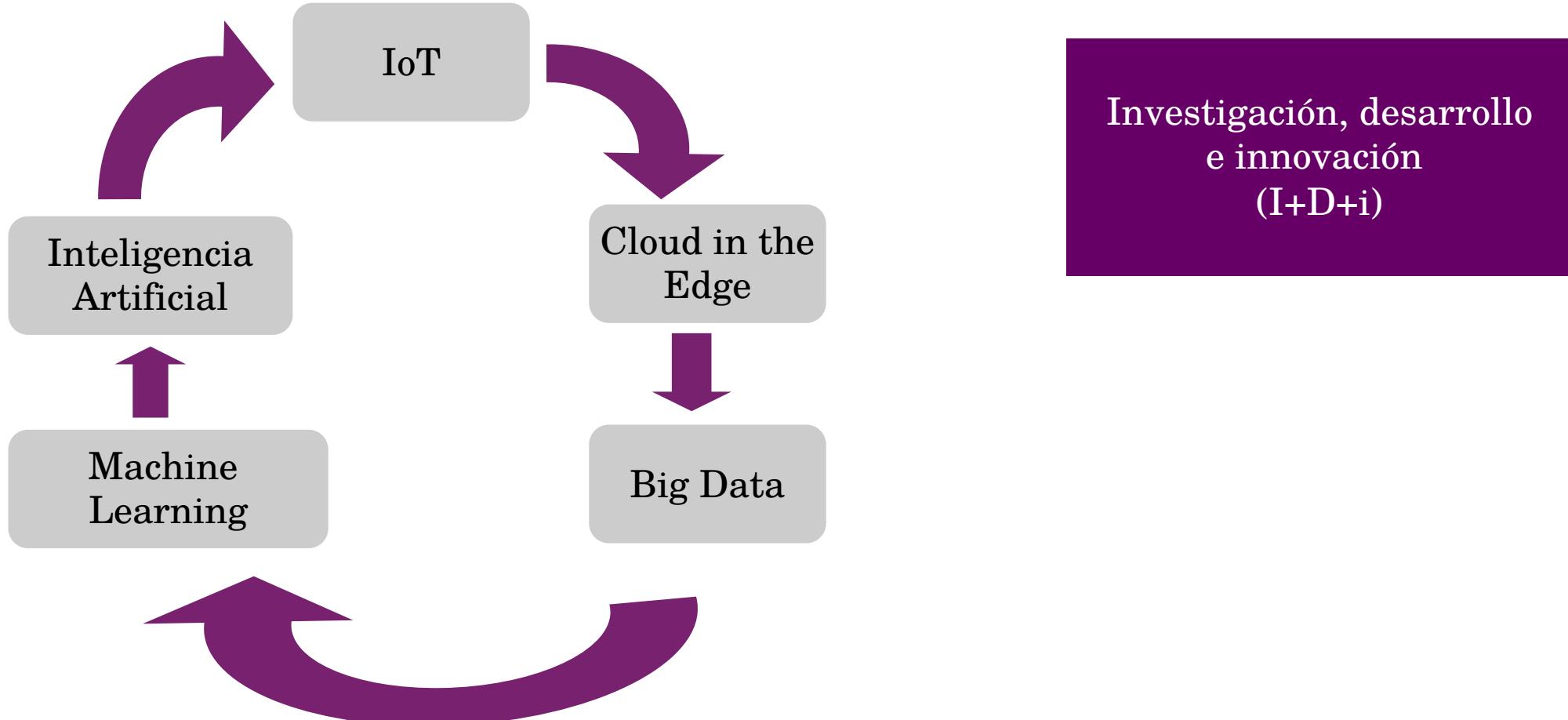
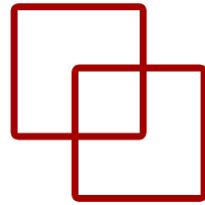
- Universidad pública con representación a nivel mundial.
 - Tasas muy bajas con una exigencia alta.
 - Títulos europeos oficiales
- En Lima, el centro UNED es el centro español en Salaverry.
- Posibilidad de estudiar pregrado y posgrado:
 - Máster de Inteligencia Artificial
 - Otros máster de informática





Líneas de investigación

ICBM-AI

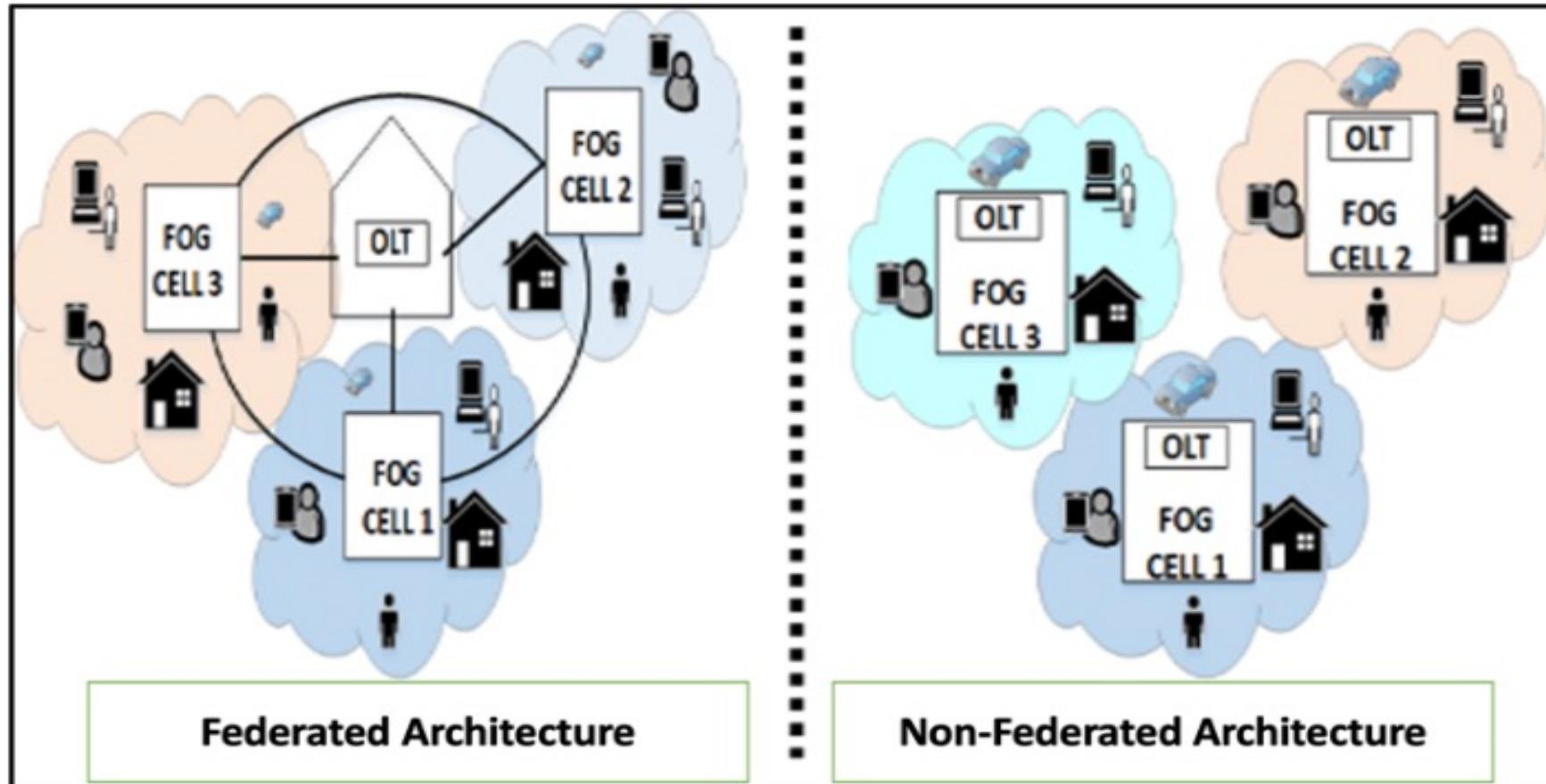
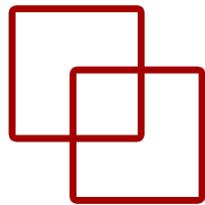


Investigación, desarrollo
e innovación
(I+D+i)

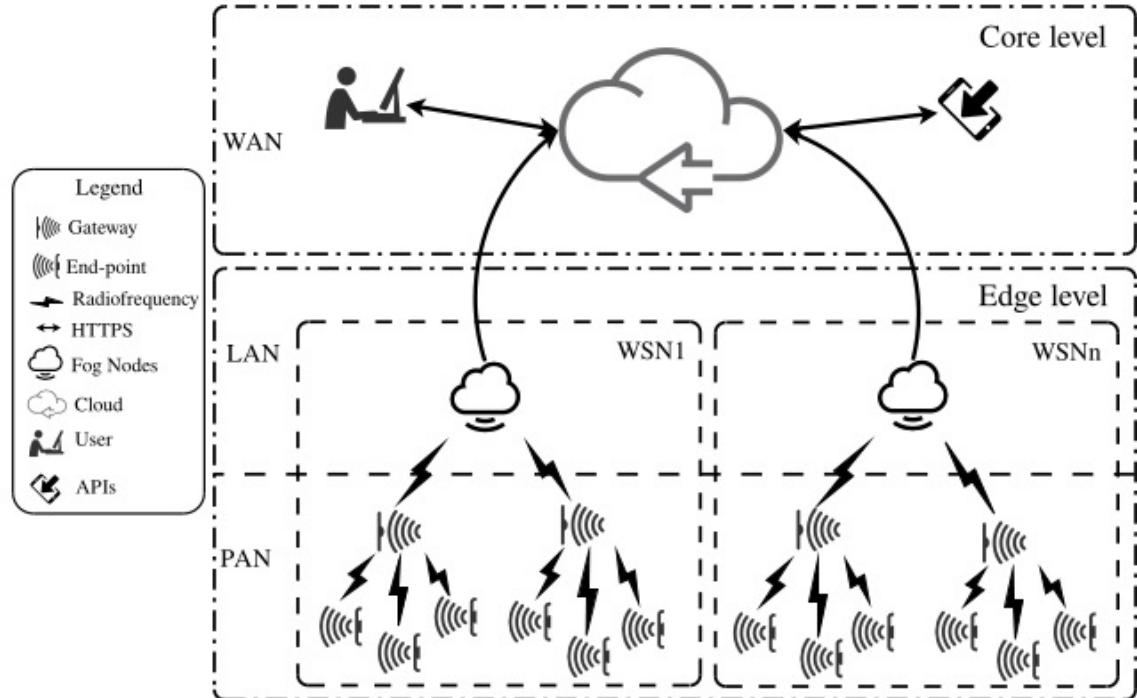
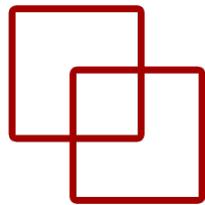


Federated-Fog Computing

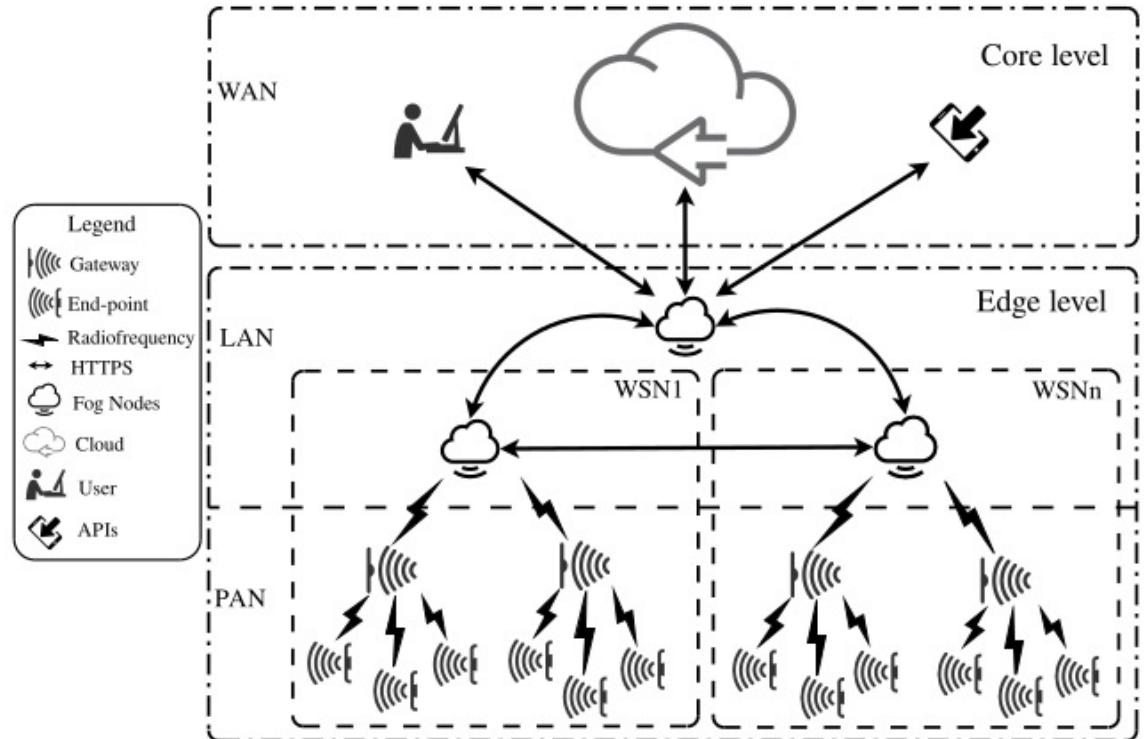
Federated-Fog Computing



Federated-Fog Computing



(a) Cloud and fog computing.

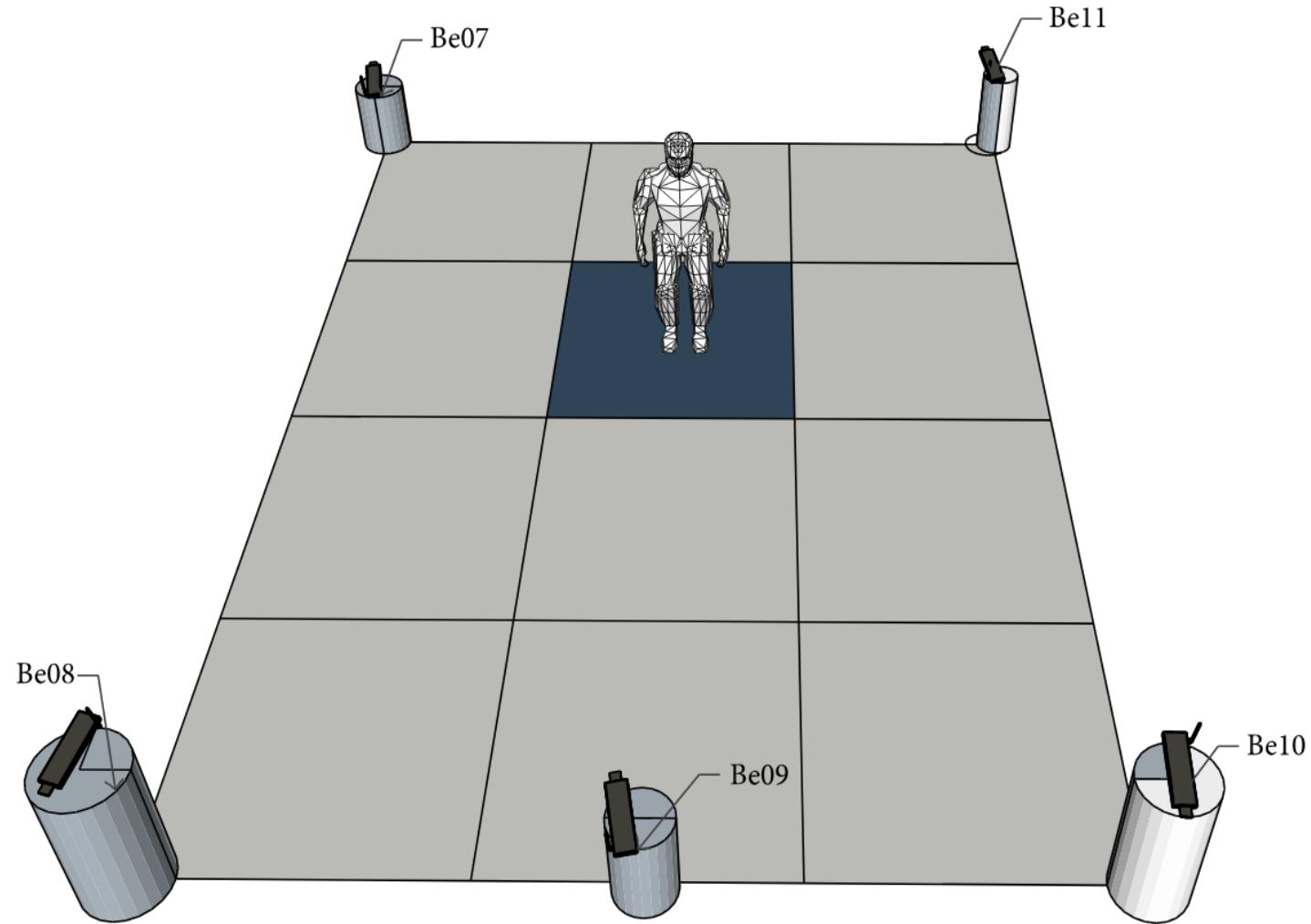
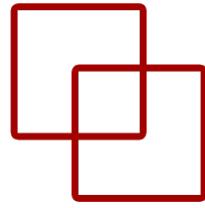


(b) Inverted- and federated-fog computing.



Indoor Localization

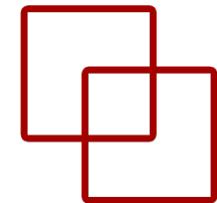
Indoor Localization



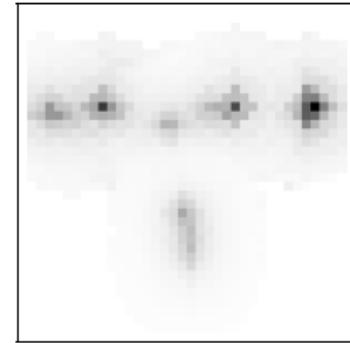
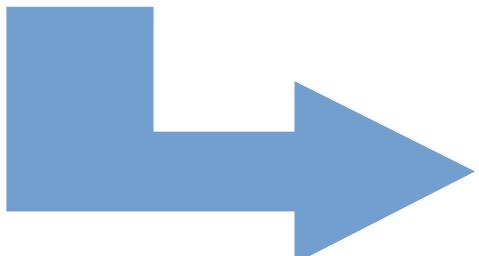


Synthetic images

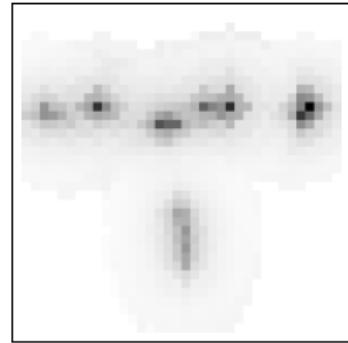
Synthetic images



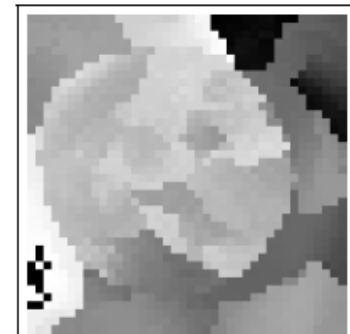
Be07	Be08	Be09	Be10	Be11	Sector
-65	-61	-74	-73	-67	1
-60	-57	-83	-62	-69	2
-66	-70	-78	-63	-73	3
...
-58	-66	-71	-73	-69	14
-60	-62	-73	-69	-57	15



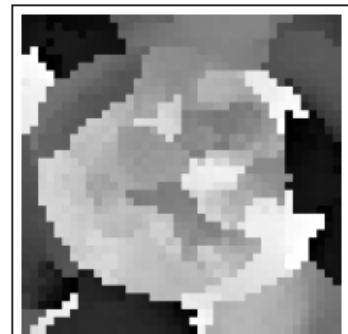
(a) TINTO - Sample 1.



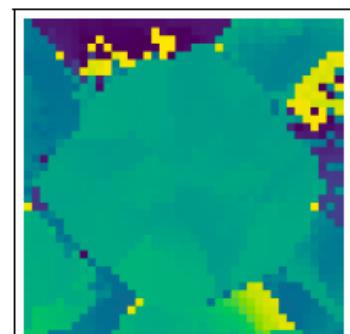
(b) TINTO - Sample 50,000.



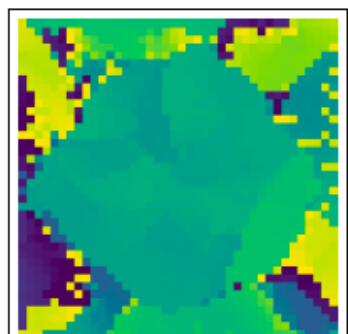
(c) IGTD - Sample 1.



(d) IGTD - Sample 50,000.



(e) REFINED - Sample 1.

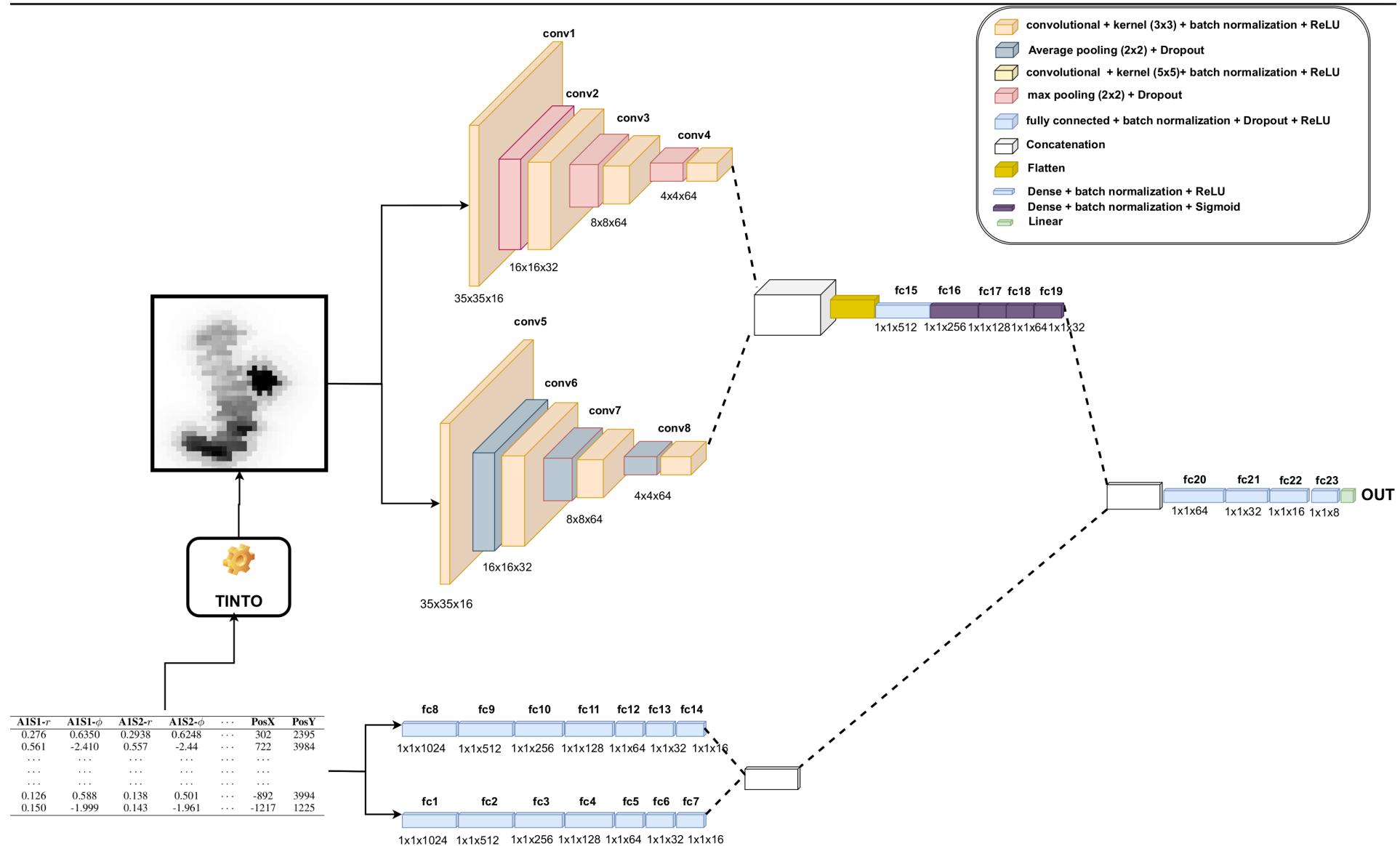
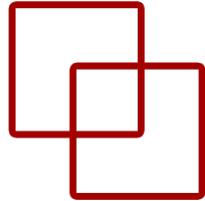


(f) REFINED - Sample 50,000.

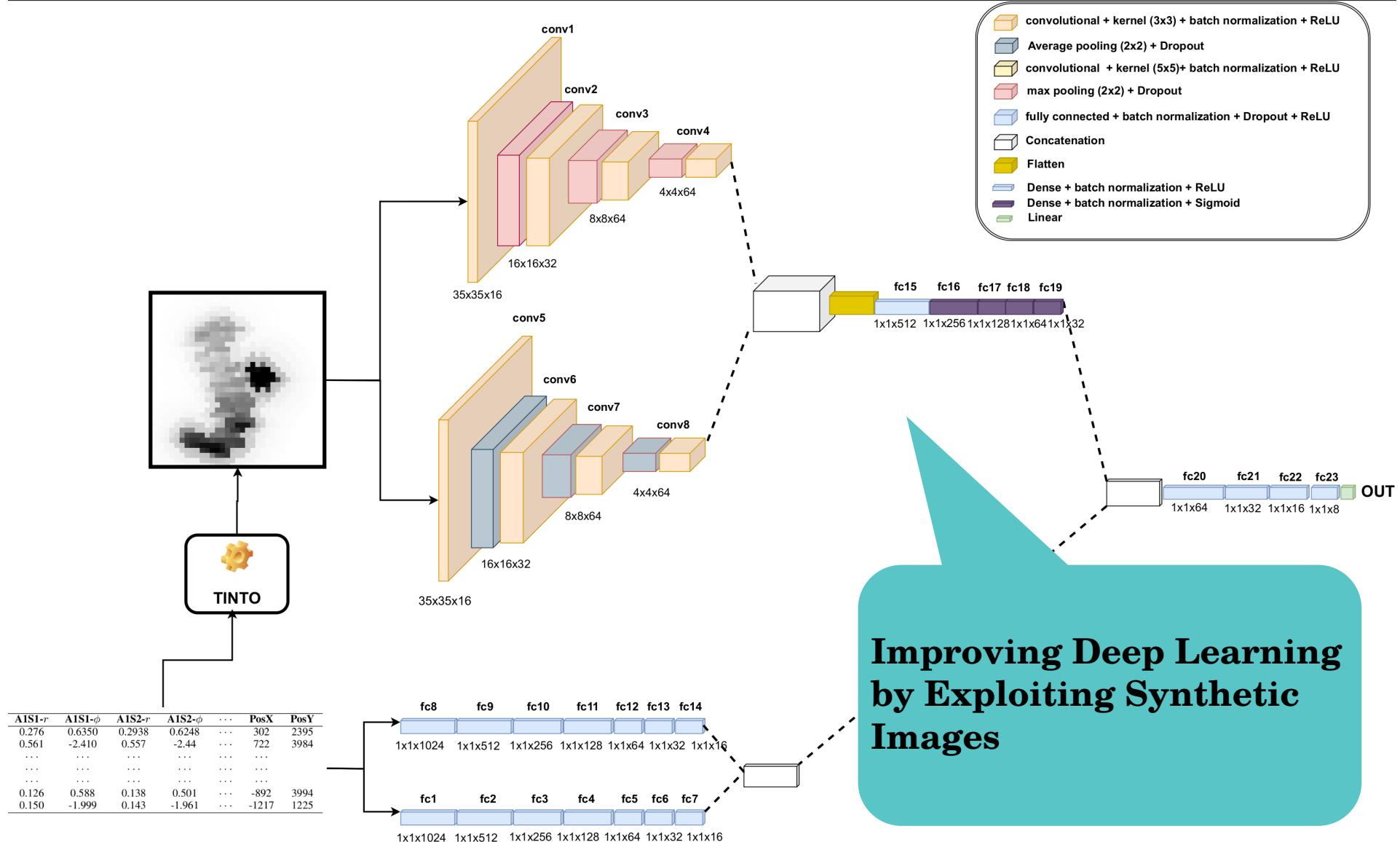
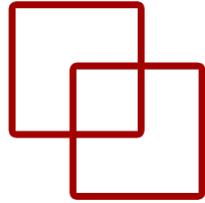


Hybrid Neural Network

Hybrid Neural Network



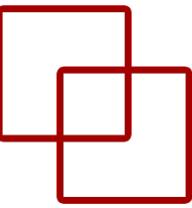
Redes Neuronales híbridas



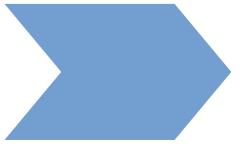


Módulos del seminario

Módulos



MÓDULO 1:
**Convolutional Neural
Networks**

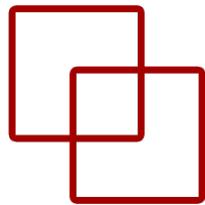


Módulos

MÓDULO 1:
Convolutional Neural
Networks

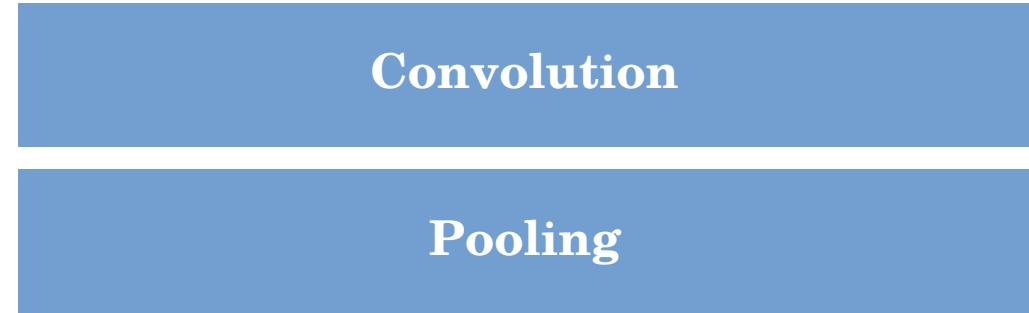
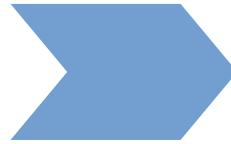


Convolution

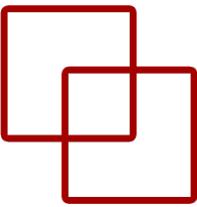


Módulos

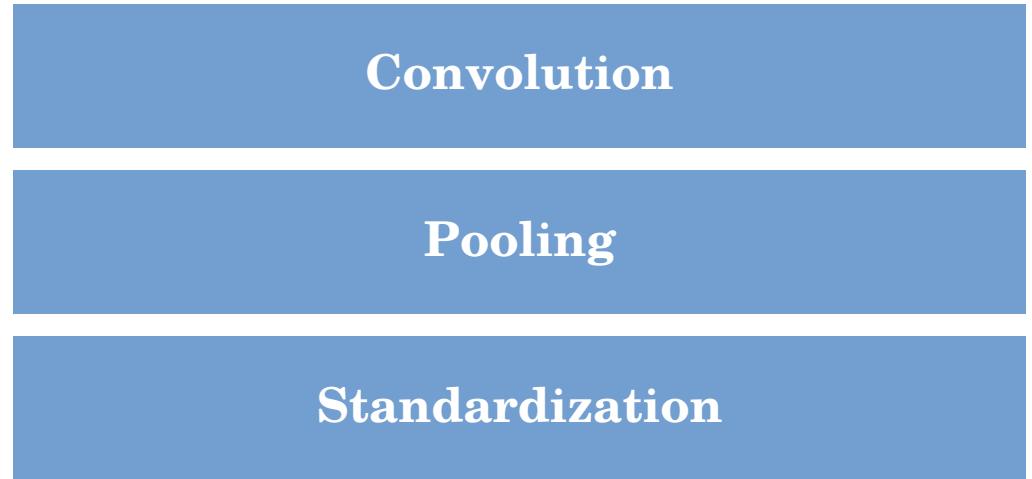
MÓDULO 1:
**Convolutional Neural
Networks**



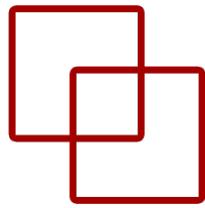
Módulos



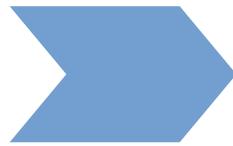
MÓDULO 1:
**Convolutional Neural
Networks**



Módulos

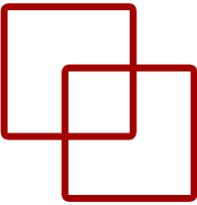


MÓDULO 2:
Transformers



MÓDULO 1:
CNN

Módulos



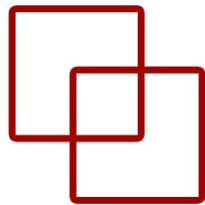
MÓDULO 2:
Transformers



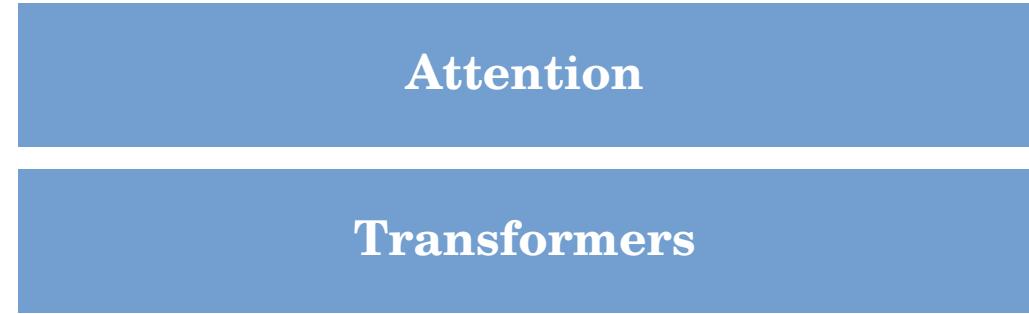
MÓDULO 1:
CNN

Attention

Módulos

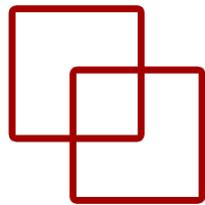


MÓDULO 2:
Transformers

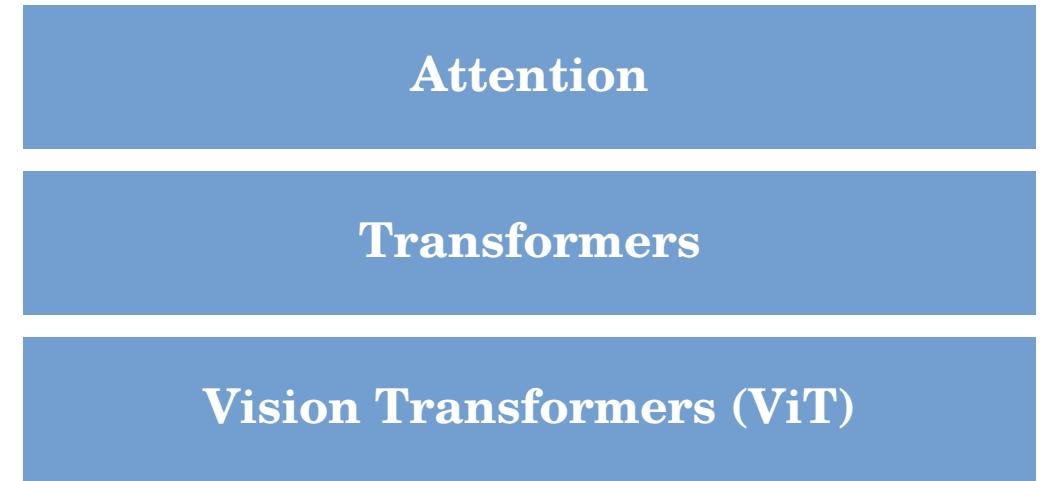


MÓDULO 1:
CNN

Módulos

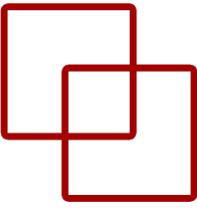


MÓDULO 2:
Transformers



MÓDULO 1:
CNN

Módulos



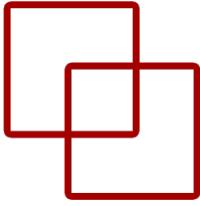
MÓDULO 3:
Synthetic images



MÓDULO 1:
CNN

MÓDULO 2:
Transformers

Módulos



MÓDULO 3:
Synthetic images

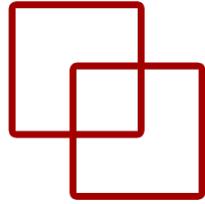


Methods

MÓDULO 1:
CNN

MÓDULO 2:
Transformers

Módulos



MÓDULO 3:
Synthetic images



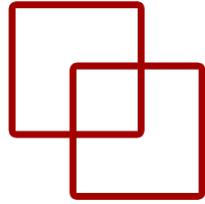
Methods

TINTOlib

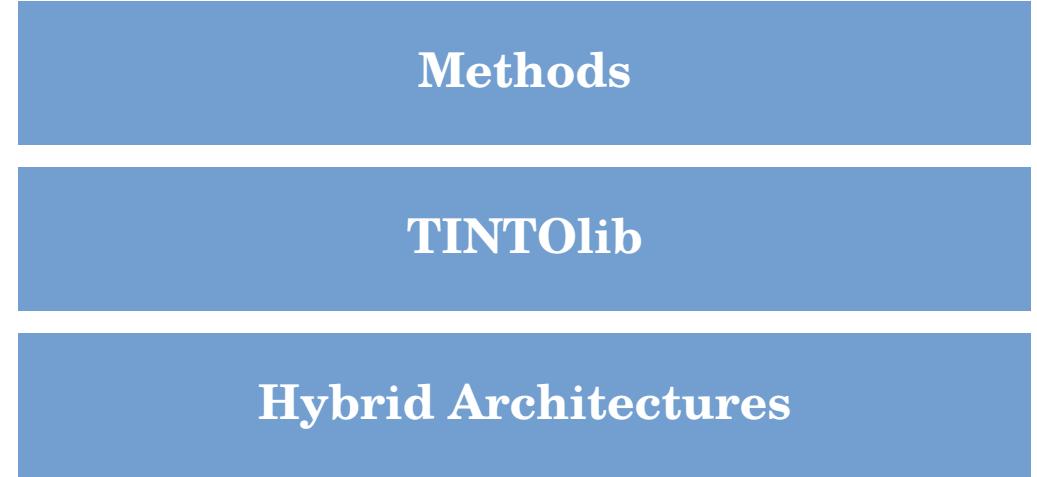
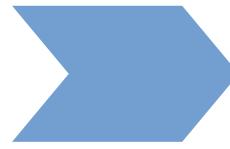
MÓDULO 1:
CNN

MÓDULO 2:
Transformers

Módulos



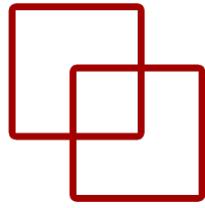
MÓDULO 3:
Synthetic images



MÓDULO 1:
CNN

MÓDULO 2:
Transformers

Módulos



Challenge

MÓDULO 1:
CNN

MÓDULO 2:
Transformers

MÓDULO 3:
Synthetic Images



Resources



5. Descargar documentos

- Link de descarga:
 - <https://bit.ly/443jWYr>



¡Gracias!



Dr. Manuel Castillo-Cara

www.manuelcastillo.eu

**Departamento de Inteligencia Artificial
Escuela Técnica Superior de Ingeniería Informática
Universidad Nacional de Educación a Distancia (UNED)**