



>>maChiron

Inteligência Artificial para a Saúde



Equipe



Ricardo di Lazzaro - Ana Ciconelle - Bruno Aragão - Luis Vianna

LivIA

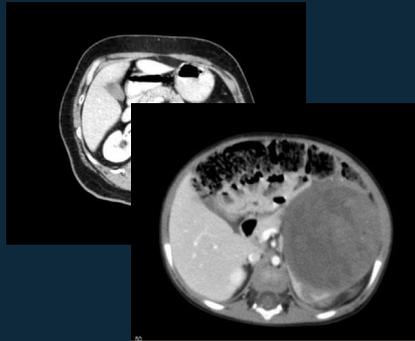
Auxílio a diagnóstico de
lesões hepáticas



FAPESP

HC
HOSPITAL DAS CLÍNICAS
DA FACULDADE DE MEDICINA
DA UNIVERSIDADE DE SÃO PAULO

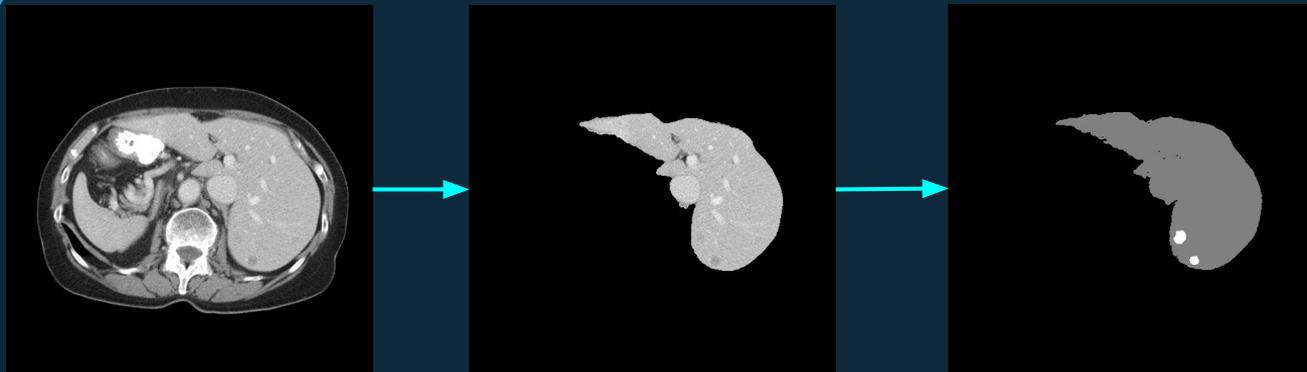
Problema



DEPARTAMENTO DE
GASTROENTEROLOGIA

HOSPITAL DAS CLÍNICAS
FACULDADE DE MEDICINA/USP

Solução



Classificação
dos Nódulos

CHC?



Processo



Banco de
Dados

Nódulos

Li-Rads



Públicos: 200 imagens



CodaLab

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Competition



LiTS Challenge
lits-challenge.com

LiTS - Liver Tumor Segmentation Challenge

Organized by PatrickChrist - Current server time: Oct. 1, 2019, 3:51 p.m. UTC

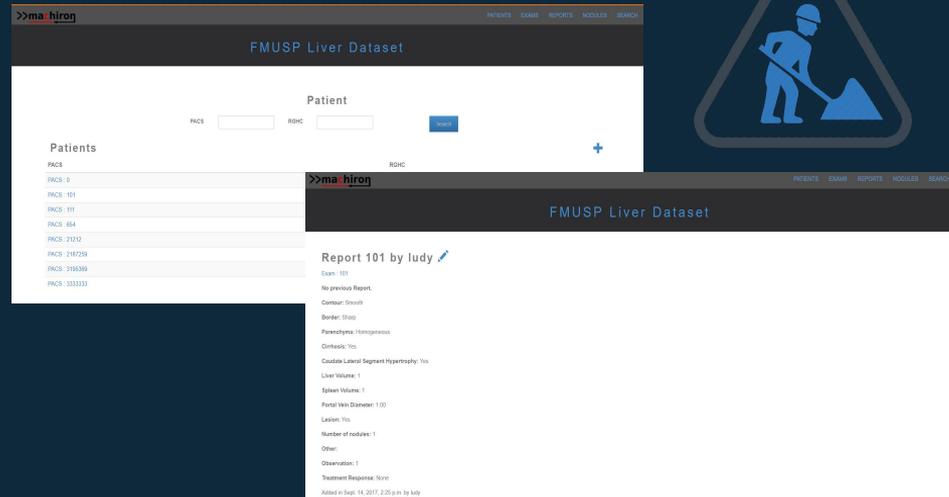
Previous **Current** End

MICCAI 2017 Open leaderboard Competition Ends

June 29, 2017, midnight UTC Aug. 4, 2017, 11 p.m. UTC Never

Banco de
Dados

Hospital das Clínicas: 100 imagens



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FMUSP Liver Dataset

Patients

PKCS: RBMC:

| PKCS |
|---------|
| 0 |
| 101 |
| 101 |
| 664 |
| 21212 |
| 2187218 |
| 5186388 |
| 3333333 |

Report 101 by ludy

Exam: 101

No previous Report.

Contour: Smooth

Border: Sharp

Paraneoplasia: Homogeneous

Clinical: Yes

Caudate Lateral Segment Hypertrophy: Yes

Liver Volume: 1

Spleen Volume: 1

Portal Vein Diameter: 1.03

Lesion: Yes

Number of nodules: 1

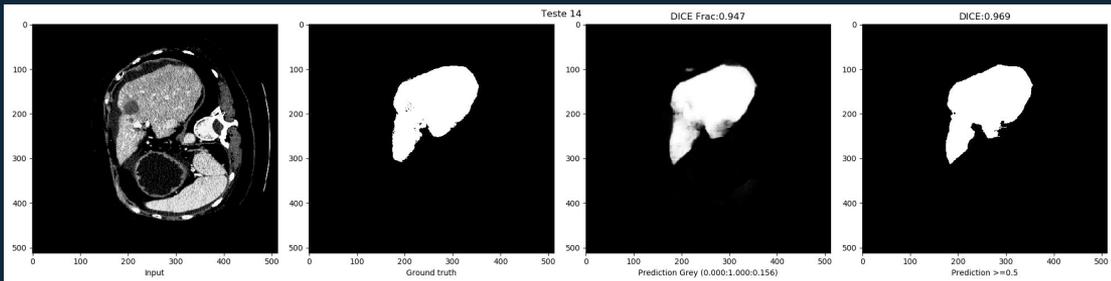
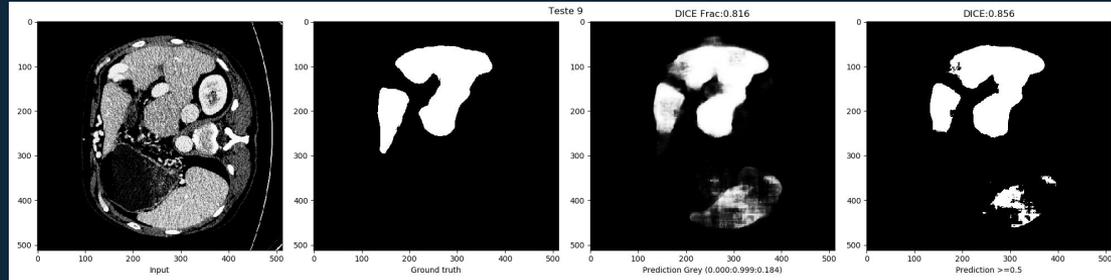
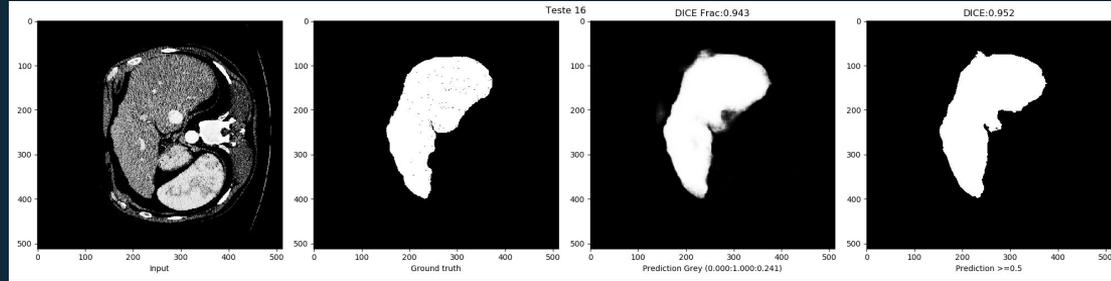
Other:

Observation: 1

Treatment Response: None

Added in Sept. 14, 2017, 2:05 p.m. by ludy





Li
Rads

Diagnostic Categories

| | |
|--------|---|
| LR-NC | Not categorizable (due to image omission or degradation) |
| LR-1 | Definitely benign |
| LR-2 | Probably benign |
| LR-3 | Intermediate probability of malignancy |
| LR-M | Probably or definitely malignant, not necessarily HCC |
| LR-4 | Probably HCC |
| LR-5 | Definitely HCC |
| LR-TIV | Tumor in vein |





Próximos Passos

- ◇ Aumentar o base de dados;
- ◇ Refinar o algoritmo de classificação;
- ◇ Implementação da LivIA no Hospital das Clínicas.





Obrigada!

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