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Artificial intelligence for imaging diagnosis of hepatocellular carcinc

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Artificial Intelligence (AI) continues to shape the practice of radiology, with imaging of hepatocellular carcinoma (HCC) being of no exception. This article prepared by members of the LI-RADS Treatment Response (TR LI-RADS) work group and associates, presents recent trends in the utility of AI applications for the volumetric evaluation and assessment of HCC treatment response.

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Although **artificial intelligence** (AI) was initially developed many years ago, it has experienced spectacular advances over the last 10 years for application in the field of medicine, and is now used for **diagnostic,** therapeutic and prognostic purposes in almost all fields. Its application in the area of **hepatology** is especially relevant for the study of **hepatocellular carcinoma** (HCC), as this is a very common tumor, with particular radiological characteristics that allow its **diagnosis** ...

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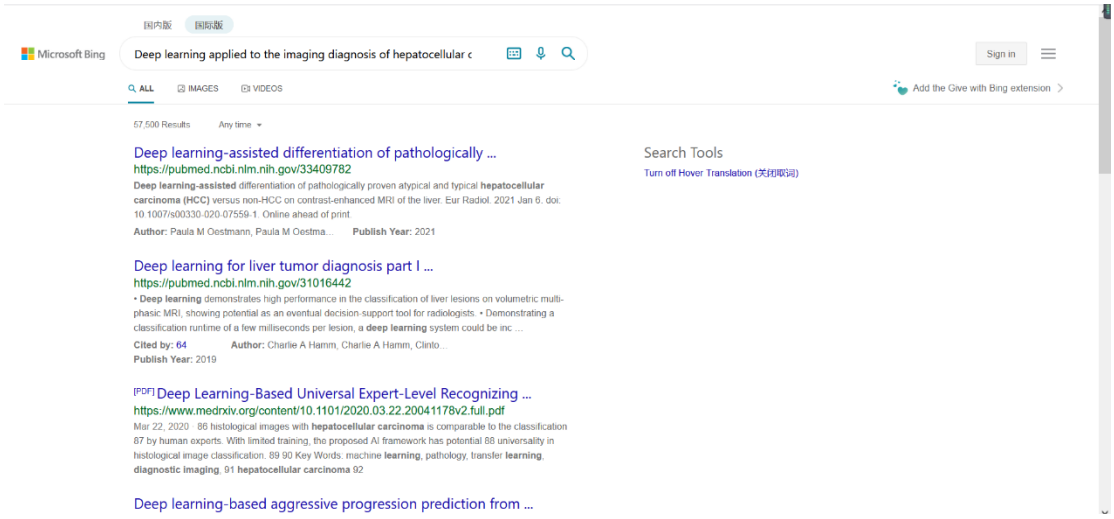
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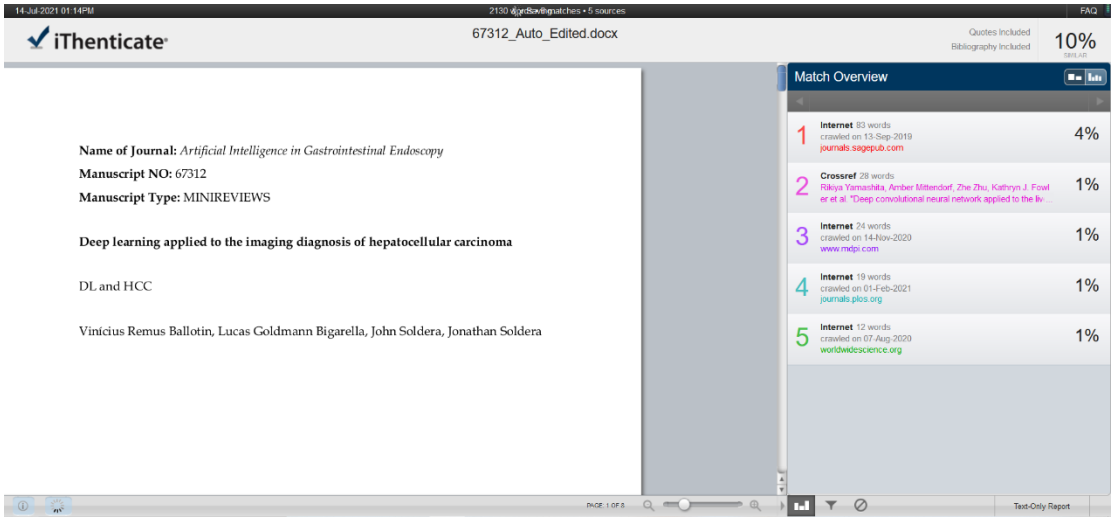

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Deep learning applied to the imaging diagnosis of hepatocellular carcinoma

DL and HCC

Vinícius Remus Ballotin, Lucas Goldmann Bigarella, John Soldera, Jonathan Soldera

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Purpose: High mortality rate due to liver cirrhosis has been reported over the globe in the previous years. Early detection of cirrhosis may help in controlling the disease progression toward **hepatocellular carcinoma** (HCC). The lack of trained CT radiologists and increased patient population delays the **diagnosis** and further management.

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