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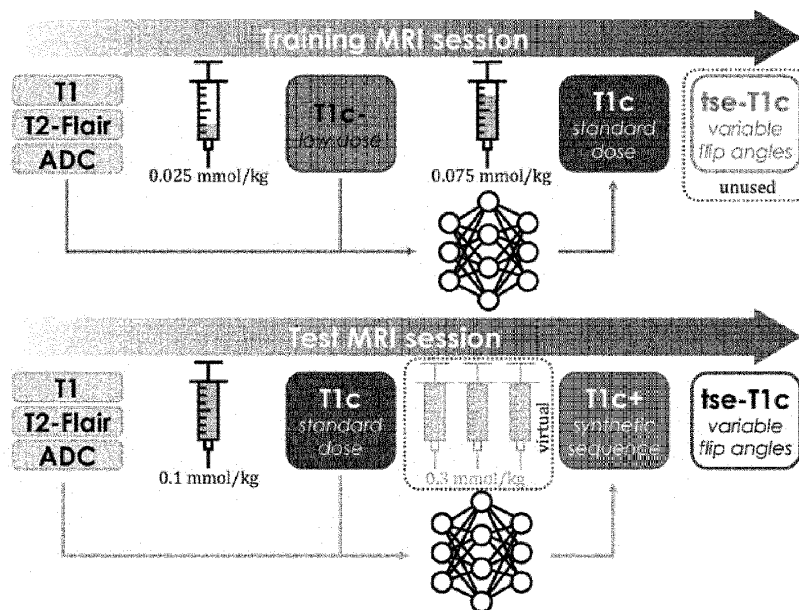
(71) Applicants: **GUERBET** [FR/FR]; 15, rue des Vanesses, 93420 VILLEPINTE (FR). **INSTITUT GUSTAVE ROUSSY** [FR/FR]; 39, rue Camille Desmoulins, 94800 VILLEJUIF (FR).

(72) Inventors: **BONE, Alexandre**; 67 rue de Clichy, 75009 PARIS (FR). **ROHÉ, Marc-Michel**; 11, rue d'arcueil, 92120 MONTROUGE (FR). **LASSAU, Nathalie**; 19 Avenue Robert-André Vivien, 94160 SAINT-MANDÉ (FR). **AMMARI, Samy**; 1 Rue Saint Georges, 94700 MAISONS-ALFORT (FR). **ROBERT, Philippe**; 8, rue du Château Landon, 75010 PARIS (FR).

(74) Agent: **REGIMBEAU**; 20, rue de Chazelles, 75847 PARIS CEDEX 17 (FR).

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(54) Title: METHOD FOR PROCESSING AT LEAST A PRE-CONTRAST IMAGE AND A CONTRAST IMAGE RESPECTIVELY DEPICTING A BODY PART PRIOR TO AND AFTER AN INJECTION OF A FIRST DOSE OF CONTRAST AGENT



(57) Abstract: The present invention relates to method for medical imaging, the method being characterized in that it comprises the implementation, by a data processor (11b) of a second server (1b), of steps of: (a) Obtaining at least one candidate pre-contrast image and a candidate contrast image respectively depicting a body part prior to and after an injection of a first dose of contrast agent, wherein said first dose is higher than a predetermined low dose, the predetermined reduced dose being lower than a predetermined standard dose; a convolutional neural network, CNN, being trained to reconstruct, from at least a pre-contrast input image and a low dose contrast input image respectively depicting a body part prior to and after an injection of said low dose of contrast agent, a standard dose contrast image depicting said body part after an injection of said standard dose of contrast agent; (b) Simulating an injection of a second dose

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of contrast agent which is higher than the standard dose, wherein said simulating comprises generating a synthetic contrast image by applying the CNN to the at least one candidate pre-contrast image and the candidate contrast image.