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(71) Applicant: **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, New York 10504 (US).

(71) Applicants (for MG only): **IBM (CHINA) INVESTMENT COMPANY LTD.** [CN/CN]; 25/F, Pangu Plaza, No. 27, Central North 4th Ring Road, Chaoyang District, Beijing 100101 (CN). **IBM ISRAEL - SCIENCE &**

TECHNOLOGY LTD. [IL/IL]; Haifa University Campus, 165 Aba Khoushy Ave, Mount Carmel, 3498825 Haifa (IL).

(72) Inventors: **TLUSTY SHAPIRO, Tal**; IBM Israel - Science & Technology Ltd., Haifa University Campus, 165 Aba Khoushy Ave., Mount Carmel, 3498825 Haifa (IL). **ABUTBUL, Ami**; IBM Israel - Science & Technology Ltd., Haifa University Campus, 165 Aba Khoushy Ave, Mount Carmel, 3498825 Haifa (IL). **RABINOVICI-COHEN, Simona. PEREK, Shaked**; IBM Israel - Science & Technology Ltd., Haifa University Campus, 165 Aba Khoushy Ave, Mount Carmel, 3498825 Haifa (IL). **HEXTER, Efrat**; IBM Israel - Science & Technology Ltd., Haifa University Campus, 165 Aba Khoushy Ave, Mount Carmel, 3498825 Haifa (IL).

(74) Agent: **GILBOA, Eyal**; IBM Israel - Science & Technology Ltd., Haifa University Campus, 165 Aba Khoushy Ave, Mount Carmel, 3498825 Haifa (IL).

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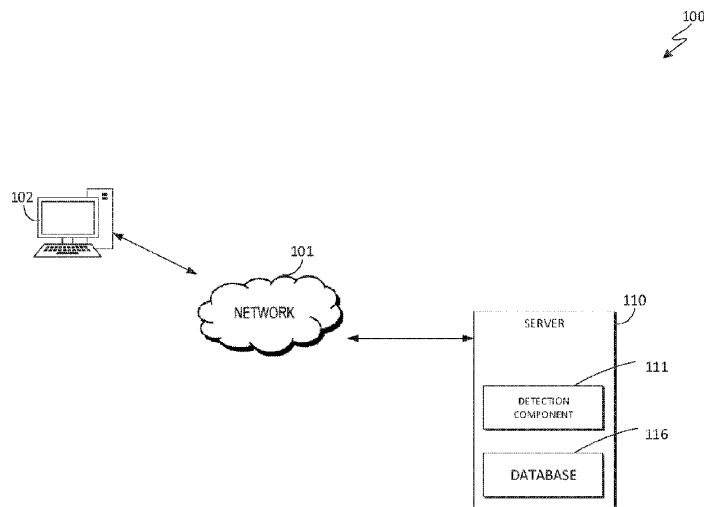


FIG. 1

(57) Abstract: An approach for improving determining a significant slice associated with a tumor from a volume of medical images is disclosed. The approach is based on the annotation of tumor range and the slice index in which the tumor appears to have the largest area. The approach infer a tumor growth classifier on sliding window of the volume slices and creates a discrete integral function out of the classifier predictions. The approach applies post processing on the discrete integral function which can include a smoothing function and a bias correction. The approach selects the slice index of maximum value from the post processing step.

[Continued on next page]

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