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(71) Applicant: **NATIONAL UNIVERSITY OF SINGAPORE** [SG/SG]; 10 Kent Ridge Crescent, Singapore 119260 (SG).

(72) Inventors: **XIA, Tao**; Blk 1C, Gillman Heights #18-19, Singapore 102001 (SG). **LIU, Bao**; Blk 894B Woodlands Drive 50, #11-39, Singapore 731894 (SG). **THAM, Jo, Yew**; Apartment #1110, 1035 Aster Avenue, Sunnyvale,

CA 94086 (US). **SHEN, Lixin**; Blk 31, Dover Road #03-111, Singapore 130031 (SG). **LEE, Seng, Luan**; 58 Upper Thomson Road, Singapore 576230 (SG).

(74) Agent: **SACHITHANANTHAN, Suresan**; c/o Tan Rajah & Cheah, 9 Battery Road, #15-00, Straits Trading Building, Singapore 049910 (SG).

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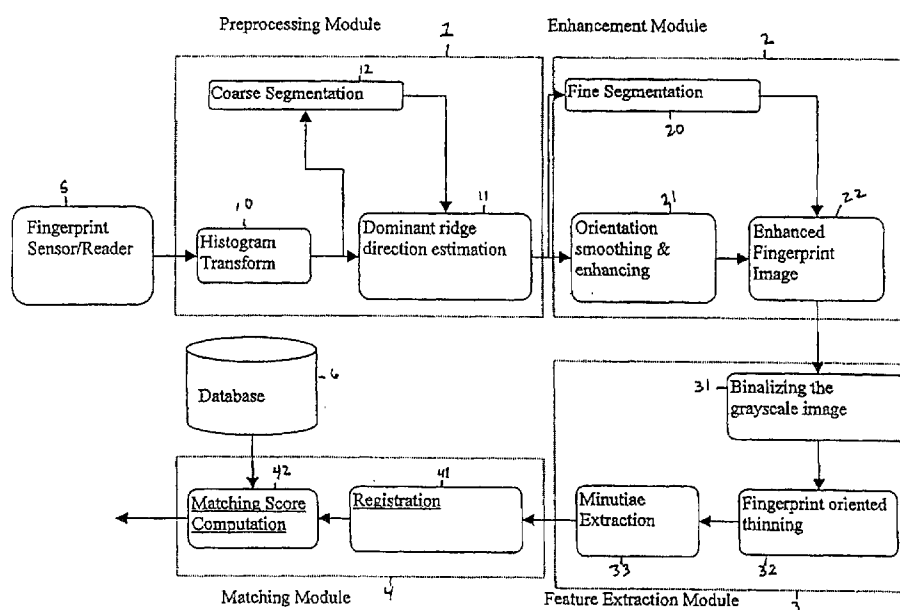


Figure 1. Flowchart of declared system

(57) Abstract: A method and system for performing automated biological identification. The system including a preprocessing module with a histogram transform for locally and globally enhancing biological data such as fingerprints. An enhancement module with a fast smoothing and enhancement function. A feature extraction module with a fingerprint oriented thinning function. A matching module with a resolution-enhanced Hough transform function for fingerprint registration and matching score function.



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