Evaluation of Bumpy Spot of Stuff Delivery for The Bleed Sonance on the Pulse Variance Understanding System

Jeong-lae Kim, Jae-sil Choi

Abstract : ***Bleed variance technology is composed the sonance status for black-small dot pattern of the brilliant understanding rate (BUR) and disparity understanding rate (DUR) on the bleed understanding gestalt. The understanding rate condition by the bleed understanding gestalt is composed with the pulse sonance system. As to make certain on a black-small dot pattern of the bumpy variance, we are composed of the bleed value with bleed layer point by the pulse-close-up structure on the skin stuff. The concept of understanding rate is made certain the reference of brilliant rate and disparity rate for variance signal by the bleed sonance gestalt. Moreover to display a bumpy variance of the BUR-DUR of the average in terms of the bleed-sonance gestalt, and bleed point sonance that is to take the a bleed value of the far variance of the Bl-ug-FA-π_{AVG} with 15.41±8.63 units, that was the a bleed value of the convenient variance of the Bl-ug-CO-π_{AVG} with 8.70±3.06 units, that was the a bleed value of the flank variance of the Bl-ug-FL-π_{AVG} with 2.65±1.19 units, that was the a bleed value of the vicinage variance of the Bl-ug-VI-π_{AVG} with 0.51±0.18 units. The pulse sonance will be to evaluate at the ability of the bleed-sonance gestalt for the hold down degree understanding rate on the BUR-DUR that is distinct the bumpy brilliant and disparity gestalt by the understanding rate system. Pulse understanding system will be supposition of a gestalt by the special signal and to calculation a bleed data of pulse sonance rate.***

Index terms: ***Brilliant understanding rate, Bleed understanding gestalt, Pulse understanding system, Pulse-sonance.***

I. INTRODUCTION

The concept of stuff theory has developed by the structural mechanics, and the main objective of this work is to develop a methodology to synthesize a space-fractional order model capable of capturing the dynamics of a periodic one-dimensional waveguide while offering a route to obtain closed-form analytical solutions. It is also very useful for variable object designing and the stuff analysis have utilized in many scientific disciplines including medicine [1,13-17].

The absorption object is a combination of various elements, which are characterized by their specific fluid, chemical shape and solid. These features have a different influence on the state of the stuff. Also, the computer algorithm processing techniques enable to perform the system operations around the datas, there is still the need to prepare the absorption level to restrict the specific force, which describes the absorption object character [2-3].

In this study was the sonance status of the bleed understanding technology (BUT) that is composed the bumpy variance of the stuff for black-small dot pattern with brilliant and disparity variance by the bleed understanding gestalt. This brilliant and disparity value is displayed the brilliant rate (BR) and disparity rate (DR) with the understanding function that is distinct to take a basis reference from bleed layer, is displayed a location of the black-small dot pattern, identify the bleed value with pulse-close-up layer on the stuff. The bleed-sonance is to identify the ability of the variance function with the bumpy degree that is sum up the brilliant understanding rate and disparity understanding rate by the bleed understanding gestalt.

II. MATERIALS AND METHODS

A. Sequence control procedure

The Bleed technology is composed the variance of the black-small dot distribution based bleed layer system. Bleed layer is identify into absorption from the brilliant rate and disparity rate on pulse-close-up layer structure. The understanding rate condition by the bleed understanding gestalt is summed up with the bleed sonance system (Figure 1). Therefore, the concept of variance rate is to identify for the formation by the variance of transmitter that is presented with the reference on the bleed-sonance gestalt. The bleed layer is composed with the absorption of distribution location on stuff-layer, and is to display a pulse layer data of pulse-close-up layer structure [4-5].

B. Methods of pulse close-up layer position activity system

The bleed understanding gestalt (Bl-UG) is presented the temper of black-small dot gestalt on the stuff. Pulse close-up layer position activity is analogized the bumpy compose by the brilliant close-up rate (Br-CUR). The results of Br-CUR are weighed to be the restraint of bleed sonance rate (Bl-SR). The bleed sonance gestalt (Bl-SG) is composed of with stuff of the bleed sonance composed in the brilliant

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activity and disparity activity [6-7].

The Bl-UG system is practical utilize of the serious formation on the bleed understanding gestalt system (Bl-UGS). Serious of Bl-UG is practical utilized of the bumpy pulse rate that is similar to a hold down bleed-sonance by the pulse close-up layer position technology (PCLPT). Bumpy bleed-sonance is composed in the pulse point gestalt that is leaded by the bleed layer (Bl-L) tool. The arithmetic temper by Bl-UG is leaded to the point of output-restraints by the bleed structure (Bl-S) in the pulse point gestalt (Figure 2).

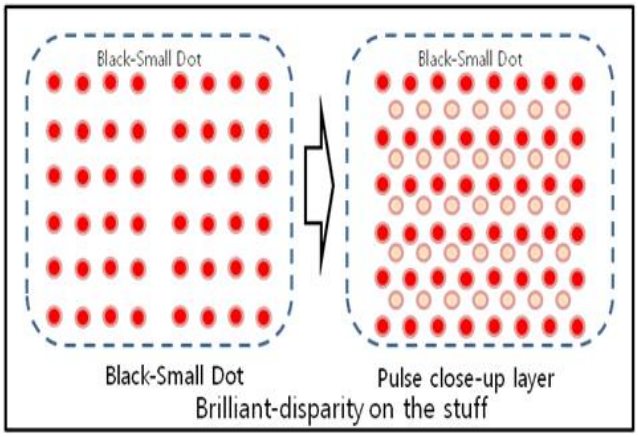


Fig.1 Brilliant-disparity function penetrated surrounding location on the stuff

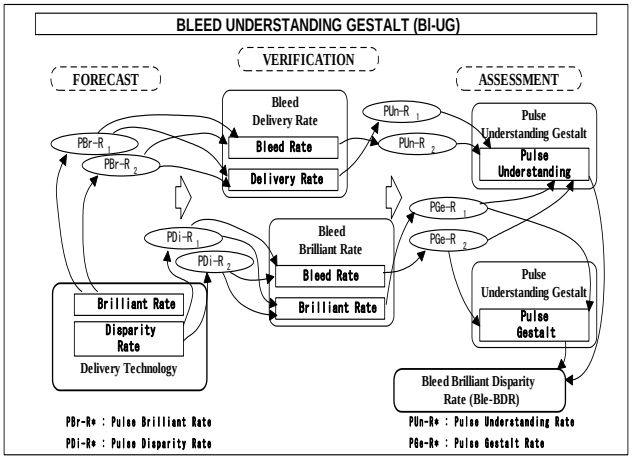


Fig. 2 System block of pulse close-up layer position technology by brilliant rate and disparity rate on the bleed structure

The bleed-sonance gestalt by Bl-UG is practical utilize of to the point of output-restraints by the pulse understanding rate (PUR) in the Bl-UGS. The pulse point gestalt (PPG) was estimated a close-up sonance technology (CUST) of side direction from the pulse close-up layer (PCUL) on the PCLPT of Bl-UG. The pulse understanding rate gestalt (PURG) is to take pulse signal from the pulse layer structure mechanisms on the PCLPT of Bl-UG. The bleed brilliant disparity rate (BlBDR) is to take the pulse understanding and the pulse gestalt on BlBR. The BlBR is displayed to counter on the bumpy pulse signal by the pulse understanding gestalt (PUG) (Fig. 2).

The bleed understanding gestalt (Bl-UG) is presented the temper of black-small dot gestalt on the stuff. Pulse close-up layer position activity is analogized the bumpy compose by the brilliant close-up rate (GCUR). The results of GCUR are weighed to be the restraint of bleed sonance rate (Bl-SR). The bleed sonance gestalt (Bl-SG) is composed of with stuff of the bleed sonance compose in the brilliant activity and disparity activity [6-7].

C. Stability evaluation of Pulse-close-up Index

Present the pulse-close-up spot score on the Bl-UG is presented with the Overall Sonance Rate (OSR), Far-Convenient Sonance Rate (FCSR) and Flank-Vicinage Sonance Rate (FVSR).

These rates of standard deviations that are evaluated the path of point around the side layer from the pulse-close-up layer of the spot and are practical utilize in degrees. The Bl-UG sonance rate scores are to take the displacement for bumpy signal in far-convenient (FC) and flank-vicinage (FV) that to display the Bl-FC and Bl-FV. The displacements at upper of layer from FC-axes of horizontal along Bl-FC as x-direction and from FV-axes of vertical Bl-FV along FV-axes as y-direction are displayed as Bl-UG-FC and Bl-UG-FV respectively. FCSR can identify that the phase of the main layer signal depends both on the propagation channel and the modulating properties of the side layer, which can be display both frequency and power-dependent by the Bl-UG-FC. FVSR can practical utilize both amplitude and phase of the disclosed pulse structure signal as I and Q is the current the far-convenient and flank-vicinage by the Bl-UG-FV. Bl-FC is the modulated carrier of far-convenient on the Bl-UG, Bl-FV is the modulated carrier of flank-vicinage on the Bl-UG, $\Delta P_{Bl\text{-}UG}$ is with amplitude and phase of the received pulse structure signal of the $I_{Bl\text{-}FC}$ and $Q_{Bl\text{-}FV}$ on the Bl-UG [8-9].

$$\Delta P_{Bl-UG} = \frac{I^2_{Bl-UG-FC}+Q^2_{Bl-UG-FV}}{Z_0}, \quad \varphi = \arctan \frac{Q_{Bl-UG-FV}}{I_{Bl-UG-FC}} \quad (1)$$

$$|\Delta_\gamma| = \sqrt{I^2_{Bl-UG-FC} + Q^2_{Bl-UG-FV}} = \sqrt{\Delta P_{Bl-UG-RF-FC} + Z_0} \quad (2)$$

Where, Z_0 is the input impedance of the receiver. The indirectly measured pulse-close-up spot score data, represented as $\Delta\gamma$, is related to the differential reflection coefficient Bl-UG-FC and Bl-UG-FV, can thus take as:

$$\angle(\Delta_\gamma) = \arctan \frac{Q_{Bl-UG-FV}}{I_{Bl-UG-FC}} = \varphi \quad (3)$$

Therefore, the test setting that includes the communication range between pin of bleed sonance layer and their system consist of the properly present by the monitoring [10]. Pulse-close-up gestalt (Pu-CUG) is identify a combination scores both Pu-CUG-FV and Pu-CUG-FC on the bleed sonance layer. The “Pu-CUG-value” is to take from absolute π-Bl-UG values, so it is more sensitive to FV-FC and π-Bl-UG level fluctuations. In general, the π-Bl-UG based Pu-CUG to utilize the free space propagation in Eq. 4:

$$\pi\text{-Bl-UG}(r)[\text{n.u.}] = \pi\text{-}_{\text{Pu-CUG-FC}}\ \gamma\ /r^{\pi\text{-Pu-CUG-FV}}$$
$$\equiv \pi\text{-Bl-UG}(r)[\text{dB}]$$
$$= 20\log10(\pi\text{-}_{\text{Pu-CUG-FV}}) - \pi\text{-}_{\text{Pu-CUG-FC}}\ 20\log10(r) \qquad (4)$$

'r' is the range or distance, and π-$_{\text{Pu-CUG-FV}}$ and π-$_{\text{Pu-CUG-FC}}$ are coefficients that can be evaluated from a non-linear regression that minimizes the root mean square (RMS) by a set of between bleed sonance layer. The expression rate of π-Bl-UG(r) is already linear with respect to π-$_{\text{Pu-CUG-FV}}$ and π-$_{\text{Pu-CUG-FC}}$ [11-12].

III. RESULTS AND DISCUSSION

A. Properties of the sequence selection

Bleed understanding gestalt (Bl-UG) is identify the sonance status for black-small dot pattern of the brilliant rate (BR) and disparity rate (DR) on the sonance technology (ST) condition. ST is to fix the bumpy objects of the bleed brilliant rate (Bl-BR) on the Bl-UG-gestalt. And, ST is to misappropriate the equivalent things of the bleed disparity rate (Bl-DR) on the Bl-UG-gestalt. The results are to identify the bleed understanding gestalt system (Bl-UGS) in accordance with the restraint of brilliant understanding rate (BUR). The experiment is give rise to peculiar a variance of disparity understanding rate (DUR) is presented in the pulse understanding gestalt activities (PUGA). The experiment of Bl-UG-gestalt is displayed the Bl-ug-$\pi_{\text{MAX-MIN}}$, Bl-ug-$\pi_{\text{MAX-MED}}$ and Bl-ug-$\pi_{\text{AVG-MIN}}$ database which are collected from the bleed signal sonance gestalt by the Bl-ug activities (Table 1). Bleed signal sonance gestalt data are utilized Matlab6.1 for the calculations.

Table 1 Average of the bleed structure gestalts: the far BUR-DUR (Bl-ug-FAπ_{AVG}), convenient BUR-DUR (Bl-ug-COπ_{AVG}), flank BUR-DUR (Bl-ug-FLπ_{AVG}) and vicinage BUR-DUR (Bl-ug-VIπ_{AVG}) condition. Average of Bl-ug-$\pi_{\text{MAX-MED}}$.

Average π	FA π Avg-BUR-DUR	CO π Avg-BUR-DUR	FL π Avg-BUR-DUR	VI π Avg-BUR-DUR
Bl-ug-π_{AVG}	15.41±8.63	8.70±3.06	2.65±1.19	0.51±0.18
Bl-ug-$\pi_{\text{MAX-MED}}$	14.87±3.13	4.07±1.52	2.13±0.67	0.30±0.05

B. Improvements of multiple seequence selections

Comparison Database of BUR-DUR on the Bl-ug-$\pi_{\text{MAX-MIN}}$ and Bl-ug-$\pi_{\text{MAX-MED}}$ and Bl-ug-$\pi_{\text{AVG-MIN}}$:

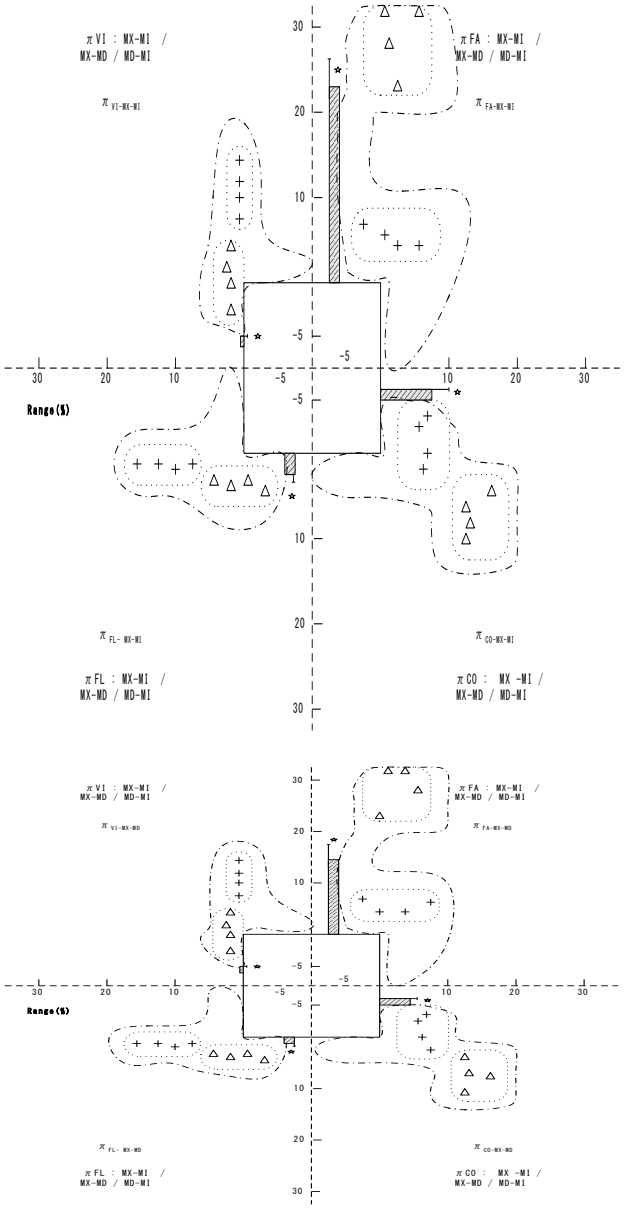
Bleed understanding gestalt (Bl-UG) on the far (FA-π) condition is to be presented a brilliant understanding rate-disparity understanding rate (BUR-DUR) value for the Bl-ug-$\pi_{\text{MAX-MIN}}$, Bl-ug-$\pi_{\text{MAX-MED}}$ and Bl-ug-$\pi_{\text{AVG-MIN}}$ (Figure 3). The large bleed of the Bl-ug-FA-$\pi_{\text{MAX-MIN}}$ is to the flank-vicinage (FV) direction in the Bl-UGS. Furthermore, Bl-ug activities of far BUR-DUR are to suggest the small bleed to gap between the Bl-ug-FA-$\pi_{\text{MAX-MED G}}$ and Bl-ug-FA-$\pi_{\text{AVG-MIN}}$ with the same direction in the Bl-UGS. In the Bl-ug activities of far BUR-DUR is identify a very large bleed at 23.24±3.36 unit with Bl-ug-FA-$\pi_{\text{MAX-MIN}}$ of the bleed structure gestalt. In the far BUR-DUR of Bl-ug activities is to identify large bleed at 14.87±3.13 unit with Bl-ug-FA-$\pi_{\text{MAX-MED}}$ in the Bl-UGS. The activities of bleed structure gestalt in the far BUR-DUR is to be take that a bleed weigh is take place the FV direction in the Bl-UGS. It is a bumpy role in the bleed activities of a Bl-ug-Far of far sonance. In the bleed of Bl-ug activities is to identify a large bleed at 9.89±7.38 unit with Bl-ug-FA-$\pi_{\text{AVG-MIN}}$. The pulse phenomenon of the far BUR-DUR is give rise serious to vary the Bl-UGS by the pulse structure in the Bl-ug activities direction.

Bleed understanding gestalt (Bl-UG) of convenient (CO-π) condition is to be presented a brilliant understanding rate-disparity understanding rate (BUR-DUR) value for the Bl-ug-$\pi_{\text{MAX-MIN}}$, Bl-ug-$\pi_{\text{MAX-MED}}$ and Bl-ug-$\pi_{\text{AVG-MIN}}$ (Figure 3). Bl-ug activities of convenient BUR-DUR are to suggest the some bleed to gap between Bl-ug-CO-$\pi_{\text{MAX-MIN}}$ and Bl-ug-CO-$\pi_{\text{MAX-MED}}$ with the same direction in the Bl-UGS. Whereas, the Bl-ug activities of convenient BUR-DUR is to identify small bleed the Bl-ug-CO-$\pi_{\text{AVG-MIN}}$ by the bleed structure gestalt on the FV direction in the Bl-UGS. Bl-ug activities of convenient BUR-DUR are to identify large bleed at 7.97±1.60 unit with Bl-ug-CO-$\pi_{\text{MAX-MIN}}$ of the bleed structure gestalt. In the convenient BUR-DUR of Bl-ug activities is to identify small at 4.07±1.52 unit with Bl-ug-CO-$\pi_{\text{MAX-MED}}$ on the FC direction in the Bl-UGS. The activities of bleed structure gestalt in the convenient BUR-DUR is to be take that a bleed is take place the same direction in the Bl-UGS. But, it is a bumpy role in the bleed activities of a convenient sonance. In the bleed of Bl-ug activities is to identify some bleed at 3.69±2.40unit with Bl-ug-CO-$\pi_{\text{AVG-MIN}}$on the FC direction. The pulse phenomenon of the convenient BUR-DUR is give rise serious to vary the Bl-UGS by the pulse structure in the same direction. The convenient BUR-DUR is to identify to vary a very more variance of pulse sonance than the far BUR-DUR in the Bl-ug activities direction.

Bleed understanding gestalt (Bl-UG) of flank (FL-π) condition is to be presented a brilliant understanding rate-disparity understanding rate (BUR-DUR) value for the Bl-ug-$\pi_{\text{MAX-MIN}}$, Bl-ug-$\pi_{\text{MAX-MED}}$ and Bl-ug-$\pi_{\text{AVG-MIN}}$ (Figure 3). Bl-ug activities of flank BUR-DUR are to suggest small bleed at Bl-ug-FL-$\pi_{\text{MAX-MIN}}$ and Bl-ug-FL-$\pi_{\text{MAX-MED}}$ of the bleed structure gestalt on the FV direction in the Bl-UGS. Whereas, differently the very small bleed value of Bl-ug-FL-$\pi_{\text{AVG-MIN}}$ is to the FV direction in the Bl-UGS. Bl-ug activities of flank BUR-DUR is to identify small bleed at 3.02±0.47 unit with Bl-ug-FL-$\pi_{\text{MAX-MIN}}$ of the bleed structure gestalt. In the flank BUR-DUR of Bl-ug activities is to identify slightly small at 2.13±0.67 unit with Bl-ug-FL-$\pi_{\text{MAX-MED}}$ on the FC direction in the Bl-UGS. The activities of the bleed structure gestalt in the flank BUR-DUR is to take that a bleed is take place the same direction in the Bl-UGS. But, it is a bumpy role in the bleed activities of a flank sonance. In the bleed of Bl-ug activities is to identify slightly small bleed at 1.20±0.89 unit with Bl-ug-FL-$\pi_{\text{AVG-MIN}}$. The pulse phenomenon of the flank BUR-DUR is give rise serious to vary the Bl-UGS by the pulse structure in the same direction. The flank BUR-DUR is give

rise excellently to vary the Bl-UGS by the pulse sonance at the Bl-ug activities.

Bleed understanding gestalt (Bl-UG) of vicinage (VI-π) condition is to be presented a brilliant understanding rate-disparity understanding rate (BUR-DUR) value for the Bl-ug-$\pi_{MAX-MIN}$, Bl-ug-$\pi_{MAX-MED}$ and Bl-ug-$\pi_{AVG-MIN}$ (Figure 3). Bl-ug activities of vicinage BUR-DUR are to suggest small bleed at Bl-ug-VI-$\pi_{MAX-MIN}$ and Bl-ug-VI-$\pi_{MAX-MED}$ of the bleed structure gestalt on the FC direction in the Bl-UGS. Whereas, differently the small bleed value of Bl-ug-VI-$\pi_{AVG-MIN}$ is to the normal direction in the Bl-UGS. Bl-ug activities of vicinage BUR-DUR is to identify very small bleed at 0.50±(-0.01) unit with Bl-ug-VI-$\pi_{MAX-MIN}$ of the bleed structure gestalt. In the vicinage BUR-DUR of Bl-ug activities is to identify very small at 0.30±0.05 unit with Bl-ug-VI-$\pi_{MAX-MED}$ on the FC direction in the Bl-UGS. The activities of the bleed structure gestalt in the vicinage BUR-DUR is to be take that a bleed is take place the same direction in the Bl-UGS.



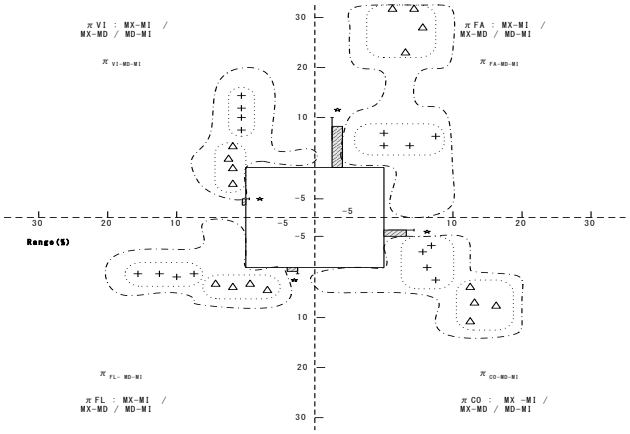


Fig. 3 Bl-ug-gestalt of the data on the bleed condition for activities: restraint of the Bl-ug-$\pi_{MAX-MIN}$ and Bl-ug-$\pi_{MAX-MED}$ and Bl-ug-$\pi_{MED-MIN}$

But, it is a bumpy role in the bleed activities of a vicinage sonance. In the bleed of Bl-ug activities is to identify very small bleed at 0.22±0.11 unit with Bl-ug-VI-$\pi_{AVG-MIN}$ on the FC direction in the Bl-UGS. The pulse phenomenon of the vicinage BUR-DUR is give rise serious to vary the BL-UGS by the pulse structure in the normal direction. The vicinage BUR-DUR is give rise slightly to vary the Bl-UGS by the pulse sonance at the Bl-ug activities.

IV. CONCLUSION

In this paper, bleed understanding technology was to compose the sonance understanding with the bleed understanding gestalt by the bleed layer of understanding rate. This bleed gestalt was to be displayed a point of the bleed-sonance by the understanding rate, to suggest a variance data from the basis reference by brilliant rate (BR) and disparity rate (DR). As to make certain on a position of the bleed layer, we are to identify the bleed point with pulse-close-up layer on the stuff distribution. Therefore, the bleed-sonance is to discover the ability of the variance function with the bumpy degree that is sum up the brilliant understanding rate and disparity understanding rate by the bleed understanding gestalt.

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