ICOASE2019: 2019 International Conference on Advanced Science and Engineering

Session 01

Session time	Thu, Apr 4 09:00 - 10:20
Location	Duhok- Hall 1
Talk time per paper	20
Chaired by	Razwan M.S. Najimaldeen (University of Duhok, Iraq)

Paper	Paper details	Was the paper presented?	Was the presenter one of the paper authors?	If either is No, were you aware of this in advance?
1	*Effect of quantization Error and SQNR on the ADC using Truncating method to the nearest integer bit* Alaaldin Hasso (University of Zakho, Iraq); Karwan Jacksi (University of Zakho, Iraq); Kevin Smith (University of Westminster, United Kingdom (Great Britain)) [1570524028]			
	Printed name and signature of presenter: Karwan Jacksi :			
9:05 2	*Design and Analysis of Proposed Remote Controlling Distributed Parallel Computing System Over the Cloud* Zryan Rashid (Sulaimani Polytechnic University, Iraq); Subhi Zeebaree (Duhok Polytechnic University & DPU, Iraq); Abdulkadir Şengür (Firat Univesitisi, Turkey) [1570524946]	Yes	Yes	
	Printed name and signature of presenter: Zryan Rashid :			
3	*Image Steganalysis in Frequency Domain using Co-Occurrence Matrix and BPNN* Isamadeen Khalifa (Duhok Polytechnic University DPU, Iraq); Subhi Zeebaree (Duhok Polytechnic University & DPU, Iraq); Musa Ataş Ataş (Siirt University, Iraq); Farhad Khalifa (Duhok Polytechnic University & DPU, Iraq, Iraq) [1570525500]	Yes	Yes	
	Printed name and signature of presenter: Farhad Khalifa :			
4	*Term Weighting for Feature Extraction on Twitter: A Comparison between BM25 and TF-IDF* Ammar Ismael Kadhim (Baghdad & College of Medicine, Iraq) [1570525731]	Yes	~~Yes~~ 9:21 Yes	
	Printed name and signature of presenter: Ammar Ismael Kadhim :			

Comments

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09:00: *Effect of quantization Error and SQNR on the ADC using Truncating method to the nearest integer bit*

Alaaldin Hasso (University of Zakho, Iraq); Karwan Jacksi (University of Zakho, Iraq); Kevin Smith (University of Westminster, United Kingdom (Great Britain))

Abstract: This paper considers the effects of the quantization error and SQNR on the performance of an (ADC) analog to digital converter of the sine signal using the Truncating method to the nearest integer bit. This Truncating method assigns each sample of the sine signal to the quantization level below it. By using MATLAB program, the experimental Signal to Quantization Noise Ratio (SQNR)T was always lower than the theoretical value as the number of bits increased in the digital word. This was expected because truncating the data leads to less accurate quantization of the signal and a lower SQNR. The statistical program (STATGRAPHICS PROGRAM) was used to analyze simple regressions of the quantization error and compare between Standard Deviation (SD) and Main Absolute Deviation (MAD) of the quantization error. Analysis Regression - Linear model, using the STATGRAPH plus program we then analyzed the effect of the statistic Correlation Coefficient (r)T and the equation of the Regression line of dependent value (SQNR)T on the independent value 'number of bits (n)' using Truncating methods.

Comments

09:20: *Design and Analysis of Proposed Remote Controlling Distributed Parallel Computing System Over the Cloud*

Zryan Rashid (Sulaimani Polytechnic University, Iraq); Subhi Zeebaree (Duhok Polytechnic University & DPU, Iraq); Abdulkadir Şengür (Firat Univesitisi, Turkey)

Abstract: Cloud computing is one of the technologies that has great applications in this era, especially when it is supplemented by distributed computing and parallel processing then its benefits will be rocketed. The combination of these different technologies gives as the opportunity to access huge computing power remotely from light processing devices such as a normal personal computer, laptop, or even a smartphone. In this paper we proposed requirements and an analysis of a system design for a platform to combine and applying distributed parallel processing via distributed cloud computing that can solve some specific and huge client problems which needs unusual processing power and solving them in a minimum time. Our design consists of number of servers for processing client's tasks in different geographical locations. These tasks related to perform parallel processing operations for distributed loads among the servers, based on cloud computing principles. It is proposed to install some servers in Iraq: Duhok Polytechnic University (DPU) and Slaimani Polytechnic University (SPU), while some others to be located in Turkey: Firat University. The system is totally automated, it means the servers can register their selves automatically on a central server that works like an intermediate link between all servers and clients. Then the clients can get benefit from the provided processing power by the registered servers. The clients can specify tasks to be processed by the servers, they also be able to specify number of servers to participate in data processing. Finally, the client gets results a detailed report about the amount of time and CPUs usages of participated servers with more information that are mentioned in the comping sections.

Comments

09:40: *Image Steganalysis in Frequency Domain using Co-Occurrence Matrix and BPNN*

Isamadeen Khalifa (Duhok Polytechnic University DPU, Iraq); Subhi Zeebaree (Duhok Polytechnic University & DPU, Iraq); Musa Ataş Ataş (Siirt University, Iraq); Farhad Khalifa (Duhok Polytechnic University & DPU, Iraq, Iraq)

Abstract: In the last two decades, steganalysis has become a fertile research area to minimize the security risks left behind by Misuse of data concealment in digital computer files. As the propagation of hidden writing increased, the need for the steganalysis emerged and grew to a large extent necessary to deter illicit secret communications. This paper introduces a steganalysis system to detect hidden information in images through using co-occurrence matrix, frequency domain transform, the first three moments, and back propagation neural network (BPNN). Four varieties of the system implemented. Firstly, the co-occurrence matrix calculated for the input image, which suspected to be a carrier of hidden secret information. Second, three levels of discrete wavelet transform (DWT) are applied resulting in 12 subbands. Then, those subbands along with the original image are transformed by discrete Fourier transform (DFT) or discrete cosine transform (DCT) to produce 13 subbands. After that, the first three moments are calculated resulting feature vector with 39 features. Finally, BPNN is used as a classifier to determine whether the image is containing hidden information or not. The system is tested with and without co-occurrence matrix, each of them once using DFT and another time using DCT. The results have shown that using co-occurrence matrix with DFT has the highest performance, which was 81.82% on the Hiding Ratio of 0.5 bit per pixel. This work demonstrates a good effect comparing to previous works.

Comments

10:00: *Term Weighting for Feature Extraction on Twitter: A Comparison between BM25 and TF-IDF*

Ammar Ismael Kadhim (Baghdad & College of Medicine, Iraq)

Abstract: Feature extraction is to transform a text document from any format into a list of features that can be easily processed by text classification techniques. Feature extraction is one of significant preprocessing techniques in data mining and text classification that computes features value in documents. Hence, efficient feature extraction techniques like the BM25 and term frequency-inverse document frequency (TF-IDF) techniques are normally utilized in term weighting. Nevertheless, BM25 is not a single function that is utilized to exceedingly correct very long documents. This problem cannot denote the helpfulness or importance of confident features, and decreases the efficiency of classification. This paper presents a comparative study of feature extraction techniques. Two techniques were evaluated BM25 and TF-IDF to weight the terms on Twitter. In this paper, TF-IDF feature extraction technique is presented to compare between the two techniques. The experiments show that TF-IDF improves the performance evaluation of feature extraction according to the maximum value of F1-measure is 89.77 for TF-IDF and 89.16 for BM25.

Comments

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Attendance Sheet/
Hall No. from : -
April, -2019

- **Name of the Researcher (s)/ Presenter (s):**.....

- **Title of the Presenting Research/ Paper:**

- .....

- .....

- .....

- .....

- **Time:** 9: ——— 10:20 session 1 4/4/2019

- **Avenue: DPU- Technical Institute of Duhok- Azadi Hall- Seminar Hall No.** 1

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12	Bishar Rasheed Ibram.	Computer Science	DPU Bardarash	Basharrasheed83@gmail.com	
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22	د. غيداء عبد العزيز الطالب Ghayda abdul Aziz Al-Talib	computer science / Artificial Intelligence	قسم علوم الحاسوب / جامعة الموصل	ghaydabdulaziz@uomosul.edu.iq 07017975 79	
23	شيروان ربيعاني Sherwan Rebani	Computer Science	جامعة بولتكنيك كركوك / University Polytechnic	0750 425 38 44	
24	د. عمار اسماعيل كاظم Dr. Ammar Ismael Kadhim	pattern Recognition	جامعة بغداد كلية الالف / University of Baghdad College of Medicine	0710 273 4246	
25	سردار فاضل قاسم Sardar F. Qasim	Accounting	DPU	0750 755 0789 sardar.fadhil@dpu.edu.krd	
27	يوسف عبد الله الباني Yousif. ALBany	Molecular microbiology	DPU	0750 748 99 43 Yousif.ALBany@DPU.edu.krd	
28	د. رزوان محمد مايي Dr. Razwan M.S. Mayi	Remote exper.	UOD	0750 473 6993 razwan.mayi@uod.ac	
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30	Mayyadah Ramiz د. ميادة رامز	Computer Science	University of Zakho	mayyadah.mahmood@uoz.edu.krd	
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