APPENDICES

SINTA 1

No	Journal Name	Author	Title	Abstracts	Moves	Steps	Linguistic Features	
							Tenses	Voice
2	International Journal on Electrical Engineering and Informatics (STEI ITB)	Rinaldi Munir	A Fragile Watermarking Scheme for Authentication of GIF Images	**Fragile image watermarking** could be **used** to authenticate a digital image due to modification or altering.	M1	S-2	Simple Past	Passive
				A watermark **is embedded** into the image.	M1	S-3	Simple Present	Passive
				When the image **was modified or altered**, the watermark is also altered or fragile.	M1	S-3	Simple Past	Passive
				One of popular **image format is** GIF image.	M1	S-3	Simple Present	Active
				Some fragile watermarking algorithms **are applied** to the single GIF image only, none for animated images.	M1	S-3	Simple Present	Passive
				However, we **could modify** the existing steganography algorithm to build a fragile watermarking scheme for any kind of GIF images (still images or animated images).	M1	S-4	Simple Past	Active
				In this paper, we **reused** EzStego to embed a watermark into the GIF images.	M2		Simple Past	Active
				EzStego **is a steganography algorithm** especially for hiding the message in the palette images such as the GIF images.	M3	S-6	Simple Present	Active
				The watermark, which is a binary image, **is inserted** into a GIF image based on EzStego embeddeing scheme.	M3	S-7	Simple Present	Passive
				For increasing security, the watermark **is encrypted** with the random bits based on chaos system before embedding.	M3	S-7	Simple Present	Passive

				To prove authentication of the image, the watermark **is extracted** from the watermarked image based on EzStego extraction scheme and then compare it with the original watermark.	M3	S-7	Simple Present	Passive
				The fragile watermark **indicates** that the image has been altered.	M4		Simple Present	Active
				We also **could find** parts of the image that has been altered.	M4		Simple Past	Active
				We **have tested** the performance of the proposed scheme by doing some typical attacks to the watermarked images.	M3	S-7	Present Perfect	Active
3	International Journal on Electrical Engineering and Informatics (STEI ITB)	Dian Andriana, Ary Setijadi Prihatmanto, Egi Muhammad Idris Hidayat, and Carmadi Machbub	Combination of Face and Posture Features for Tracking of Moving Human Visual Characteristics	**Understanding images by recognizing** its objects **is** still a challenging task.	M1	S-1	Simple Present	Active
				Tracking of moving human and recognition **have been developed** by researchers but not yet shows enough information needed for recognition.	M1	S-4	Present Perfect	Passive
				Initially, a tracking process of an object **starts** with detection and recognition of the object in a static pose and position, and then **continues** in movement in different poses.	M1	S-3	Simple Present	Active
				Available moving human recognition methods still **has** error in classification and need a huge amount of examples which may still be incomplete.	M1	S-4	Simple Present	Active
				Human face and body posture characteristics such as size of the eyes, nose, mouth, or fat or thin bodies, **are important** visual features in different poses for personal identification to increase accuracy of human recognition system, and it **is still rare** in researches.	M1	S-2	Simple Present	Active
				This paper attempts to describe visual features	M2		Simple Present	Active

			that best known for human, but hard to be recognized by machines.				
			Curve fitting **approaches** to face and body posture features **are also introduced** to capture exact patterns of the features.	M3	S-7	Simple Present	Active
			Body postures **are also preprocessed** with a Kinect depth camera, and also compared to popular and recent methods of visual object recognition.	M3	S-7	Simple Present	Passive
			Finally, we **demonstrate** our method can be useful for visual object classification.	M3	S-7	Simple Present	Active
			Probabilities of personal identification **can be increased** by using different poses and characteristics of smaller detail features through body postures and face areas.	M4		Simple Present	Passive
			More detail features **will richen** comparison data samples for higher recognition accuracy.	M5	S-9	Simple Future	Active
4	International Journal on Electrical Engineering and Informatics (STEI ITB)	Yoanes Bandung and Andri Priyatna Putra	Development of Key Exchange Protocol to Enhance Security of Voice over Internet Protocol on Mobile Phone	A system of securing voice communication on mobile phone based on peer-to-peer SIP protocol (P2PSIP) **is discussed in this paper**.	M1	S-1	Simple Present	Passive
				This paper **presents** a new key exchange protocol for secure Voice over Internet Protocol (VoIP) communication on mobile phones with P2PSIP.	M1	S-3	Simple Present	Active
				In this paper, security threats and issues in VoIP are **analyzed**.	M2		Simple Present	Passive
				In our approach, we **combine** key exchange protocol based on the Elliptic Curve Diffie Hellman (ECDH) public key cryptography with identity based user's authentication, beside we use existent text message	M3	S-6, S-7	Simple Present	Active

to exchange user information (identity, IP Address, and Port).				
The key exchange protocol **is proposed** to **assure** confidentiality and integrity of voice communication on mobile phone.	M3	S-7	Simple Present	Passive
We **conducted** security analysis between the proposed protocol with the existing ECDH protocol and **compared** their performance of key generating and key exchange time.	M3	S-7	Simple Past	Active
The proposed method **was validated** by Scyther tool for proofing the proposed key exchange protocol.	M3	S-7	Simple Past	Passive
The **experiment results showed** that the combination of ECDH and authentication mechanism has proved to be secure against attacks.	M4		Simple Past	Active
With the addition of the authentication scheme, total execution time of generate key and exchange key **is slower** by 11.70% than those of the original ECDH.	M4		Simple Present	Active
Although the execution time run more slowly, we can **guarantee** that the VoIP communications still **can be performed** interactively without impairments because the key exchange process is carried out before communication between two peers begins.	M5	S-9	Simple Present	Active
We **conducted** the confidentiality and **integrity examination using** Wireshark and Mean Opinion Score (MOS).	M3	S-6	Simple Past	Active
Results of the Wireshark tool **show** that the VoIP communication is secure againts attacks.	M4		Simple Present	Active

				From the MOS measurements we **obtained** score 3.6 **which means** we achieve good quality and integrity of VoIP communication.	M4 (embedded M5)	S-8	Simple Past	Active
5	International Journal on Electrical Engineering and Informatics (STEI ITB)	Maman Abdurohman, Aji Gautama Putrada, Sidik Prabowo, Catur W. Wijiutomo, and Asma Elmangoush	M2M Device Connectivity Framework	This paper **proposes** a machine-to-machine device connectivity (M2M-DC) framework for enhancing the efficiency of smart metering systems by controlling electrical devices in a building.	M2		Simple Present	Active
				The **Internet of Things (IoT)** is a technology trend implemented in many areas, including the utilization to enhance the efficiency of power consumption.	M1	S-3	Simple Present	Active
				Several smart metering solutions **have been developed** in recent years, but they are silo solutions that pay little attention to scalability.	M1	S-4	Present Perfect	Passive
				To ensure scalability, **a framework** that rules the number of sensors, actuators, and devices **is required**.	M3	S-6	Simple Present	Passive
				M2M-DC **is a proposed framework** that **connects** the nodes with sensors and actuators to the backend system based on the rule set.	M3	S-6	Simple Present	Active
				Some experiments are performed to measure the effectiveness of the system, and the **results show** that the M2M-DC framework can control energy consumption, achieving higher energy efficiency of 26.35% regarding the rule set.	M4		SImple Present	Active
				Based on the Wilcoxon method, the **significance** of the increase in efficiency on power consumption is **confirmed**.	M5	S-9	Simple Present	Active

				The scalability of the proposed framework **is also verified** by varying sensors, actuators, and devices.	M5	S-9	Simple Present	Passive

SINTA 2

No	Journal Name	Author	Title	Abstracts	Moves	Steps	Linguistic Features	
							Tenses	Voice
1	Jurnal lImu Komputer dan Informasi (FILKOM UI)	Pratiwi, D., Santoso, G. B., & Saputri, F. H.	THE APPLICATION OF GRAPHOLOGY AND ENNEAGRAM TECHNIQUES IN DETERMINING PERSONALITY TYPE BASED ON HANDWRITING FEATURES	This research **was conducted** with the **aim** of developing previous studies that have successfully applied the science of graphology to analyze digital handwriting and characteristics of his personality through shape based feature extraction.	M2		Simple Past	Passive
				The method of psychological tests commonly **used by** psychologists to recognize human's personality that is Enneagram will be applied in the present study.	M1	S-1	Simple Past	Passive
				The Enneagram method in principle **will classify** the personality traits of a person into nine types through a series of questions, which then calculated the amount of the overall weight of the answer.	M1	S-3	Simple Future	Active
				Thickness **is** what **will provide** direction personality type, which **will then be matched** with the personality type of the result of the graphology analysis of the handwriting.	M1	S-3	Simple Future	Active
				Personality type of handwritten analysis results **is processed** based on the personality traits that are the result of the identification of a	M3	S-7	Simple Present	Passive

No	Journal	Author	Title	Sentence	Move	Step	Tense	Voice
				combination of **four dominant** form of handwriting through the software output of previous studies, that Slant (tilt writing), Size (font size), Baseline, and Breaks (respite each word).				
				From the **results of this research can be found** there is a correlation between personality analysis based on the psychology science to the graphology science.	M4 (Embedded M5)	S-8	Simple Present	Passive
				Results matching personality types by 81.6% of **49 respondents** data who successfully tested.	M4 (Embedded M3)	S-5	Simple Present	Active
2	Jurnal lImu Komputer dan Informasi (FILKOM UI)	Indra Waspada, Adi Wibowo, Noel Segura Meraz	SUPERVISED MACHINE LEARNING MODEL FOR MICRORNA EXPRESSION DATA IN CANCER	The cancer cell gene expression data **in general has** a very large feature and **requires analysis** to find out which genes are strongly influencing the specific disease for diagnosis and drug discovery.	M1	S-2	Simple Present	Active
				In this paper several methods of supervised learning (decisien tree, naïve bayes, neural network, and deep learning) **are used to classify** cancer cells based on the expression of the microRNA gene **to obtain** the best method that can be used for gene analysis.	M3 (Embedded M2)	S-5, S-7	Simple Present	Passive
				In this study **there is no optimization** and tuning of the algorithm to test the ability of general algorithms.	M3	S-7	Simple Present	Active
				There **are** 1881 features of microRNA gene epresi on 25 cancer classes based on tissue location.	M3	S-5	Simple Present	Active
				A simple feature selection method **is used**	M3	S-7	Simple Present	Passive

				to test the comparison of the algorithm.				
				Expreriments **were conducted** with various scenarios **to test** the accuracy of the classification.	M3	S-6	Simple Past	Passive
3	Jurnal lImu Komputer dan Informasi (FILKOM UI)	Dewa Made Sri Arsa, Grafika Jati, M H Hilman	Sparse Coding-Based Method Comparison For Land-Use Classification	Land-use classification **utilize** high-resolution remote sensing image.	M1	S-1	Simple Present	Active
				The image **is utilized for improving** the classification problem.	M2		Simple Present	Passive
				Nonetheless, in other side, the problem **becomes more challenging** cause the image is too complex.	M1	S-4	Simple Present	Active
				We **have to represent** the image appropriately.	M1	S-4	Simple Present	Active
				On of the common **method** to deal with it is Bag of Visual Word (BOVW).	M3	S-6	Simple Present	Active
				The method needs a coding process **to get** the final data interpretation.	M3	S-6	Simple Present	Active
				There are **many methods** to do coding such as Hard Quantization Coding (HQ), Sparse Coding (SC), and Locality-constrained Linear Coding (LCC). However, that coding methods use a different assumption.	M3	S-6, S-7	Simple Present	Active
				Therefore, we **have to compare the result** of each coding method.	M3	S-7	Simple Present	Active
				The coding method **affects** classification accuracy.	M3	S-7	Simple Present	Active
				The best coding method **will produce** the better classification result.	M3	S-7	Simple Future	Active
				Dataset UC Merced consisted 21 classes **is used** in this research.	M3	S-5	Simple Present	Passive
				The experiment **result shows** that LCC got better performance / accuracy than SC and	M4		Simple Present	Active

					M	S		
				HQ. LCC method got 86.48 % accuracy.				
				Furthermore, LCC also **got** the best performance on various number of training data for each class.	M5	S-11	Simple Past	Active
4	Jurnal lImu Komputer dan Informasi (FILKOM UI)	Yohanes Gultom, Aniati Murni Arymurthy, Rian Josua Masikome	Batik Classification using Deep Convolutional Network Transfer Learning	Batik fabric **is** one of the most profound cultural heritage in Indonesia.	M1	S-1	Simple Present	Active
				Hence, continuous research on understanding it **is necessary** to preserve it.	M1	S-1	Simple Present	Active
				Despite of being one of the most common research task, Batik's pattern automatic classification still **requires** some improvement especially in regards to invariance dilemma.	M1	S-2	Simple Present	Active
				Convolutional neural network (ConvNet) is **one of deep learning** architecture which able to learn data representation by combining local receptive inputs, weight sharing and convolutions in order to solve invariance dilemma in image classification.	M1	S-3	Simple Present	Active
				Using **dataset** of 2,092 Batik patches (5 classes), **the experiments show** that the proposed model, which used deep ConvNet VGG16 as feature extractor (transfer learning), achieves slightly better average of 89 ± 7% accuracy than SIFT and SURF-based that achieve 88 ± 10% and 88 ± 8% respectively.	M4 (Embedded M3)	S-5, S-6, S-7	Simple Present	Active
				Despite of that, SIFT **reaches** around 5% better accuracy in rotated and scaled dataset.	M4		Simple Present	Active
5	Jurnal lImu	Zumrotun Nafisah,	Face Recognition Using Complex	Face recognition **is** one of biometrical **research**	M1	S-1	Simple Present	Active

	Komputer dan Informasi (FILKOM UI)	Febrian Rachmadi, Elly Matul Imah	Valued Backpropagation	**area** that is still interesting.				
				This study **discusses** the Complex-Valued Backpropagation algorithm for face recognition.	M2		Simple Present	Active
				Complex-Valued Backpropagation **is an algorithm** modified from Real-Valued Backpropagation algorithm where the weights and activation functions used are complex.	M1	S-3	Simple Present	Active
				The **dataset** used in this study consist of 250 images that is classified in 5 classes.	M3	S-5	Simple Past	Active
				The performance of face recognition using Complex-Valued Backpropagation **is also compared** with Real-Valued Backpropagation algorithm.	M3	S-7	Simple Present	Passive
				Experimental **results have shown** that Complex-Valued Backpropagation performance is better than Real-Valued Backpropagation.	M4 (Embedded M5)	S-8	Present Perfect	Active

SINTA 3

No	Journal Name	Author	Title	Abstracts	Moves	Steps	Linguistic Features	
							Tenses	Voice
1	Journal of Information Technology and Computer Science (Universitas	Vivin Ayu Lestari; Ismiarta Aknuranda; Fatwa Ramdani	Development Framework for the Evaluation of Usability in E-Government: A Case Study of E-Finance Government of Malang	E-government **is an effort to utilize** information and communication technology especially internet to improve public service quality which generally implemented in a web based application.	M1	S-1	Simple Present	Active
				Usability **is one of the important quality**	M1	S-1	Simple Present	Active

	Brawija ya)			criteria for the success of a web.				
				In this study we **developed** a framework for evaluation of usability in e-government consisting of eight stages: (1) determining the evaluation objectives, (2) determining the usability aspects, (3) determining the metrics usability, (4) selecting usability evaluation method candidates, (5) determining the required criteria of the method to be evaluated, (6) evaluating the method, (7) selecting and making the instrument, and (8) evaluate usability.	M2 (E mb edd ed M3)	S-6, S-7	Simple Past	Active
				The **results of the application** of this framework in the case study of e-finance **resulted** in two methods used: user testing and questionnaires.	M4		Simple Past	Active
				The evaluation of usability in e-government for e-finance case studies using the proposed framework results in usability level of e-finance in terms of effectiveness, efficiency, and user satisfaction are 96%, 92%, and 70 respectively.	M3 (E mb edd ed M4)	S-7	Simple Present	Active
				Which **can be identified** to be grouped into 16 problems consisting of aspects of effectiveness and efficiency.	M4		SImple Present	Active

					M	S		
2	Journal of Information Technology and Computer Science (Universitas Brawijaya)	Aryo Pinandito; Ferdika Bagus Pristiawan Permana; Rizal Setya Perdana	Framework Design for Modular Web-based Application Using Model-CollectionService-Controller-Presenter (MCCP) Pattern	Information system **is one of the most important** business supports in organizations. Web-based applications **become an appropriate solution** to overcome the dynamically changing environment among different units in an organization.	M1	S-1	Simple Present	Active
				Model-View-Controller (MVC) **is** a well-known design pattern in web-based application development due to the separation of an application into several parts, hence it is easy to reuse and maintain.	M1	S-3	Simple Present	Active
				However, such design pattern **requires** improvements since the information system **handles** business process choreography and integration between application.	M1	S-1	Simple Present	Active
				Therefore, **modifying** the interaction of object of class in a design pattern become a challenging problem.	M1	S-1	Simple Present	Active
				In this paper, an application framework based on Model-CollectionService-Controller-Presenter (MCCP) design pattern, which is a modification of an MVC, **was proposed**.	M2		Simple Past	Passive
				The proposed framework **allows** multiple different applications to run and provides inter-application data exchange mechanisms **to improve** the data communication process between applications.	M3	S-7	Simple Present	Active

				Several performance comparisons with another popular web application framework **are also presented**.	M3	S-7	Simple Present	Passive
3	Journal of Information Technology and Computer Science (Universitas Brawijaya)	Agi Putra Kharisma; Aryo Pinandito	Design of REST API for Local Public Transportation Information Services in Malang City	Utilization of information technology in the field of public transportation **has been proven** in improving the quality of public transportation services.	M1	S-1	Present Perfect	Passive
				The availability of information technology that supports public transportation in Malang city **is still limited.**	M1	S-1, S-3	Simple Present	Passive
				An effort **is required to encourage** the availability of information technology that support public transportation in Malang city.	M1	S-1	Simple Present	Passive
				This research **attempts to propose** a draft proposal of REST API designed for supporting information about public transportation services in Malang city.	M2		Simple Present	Active
				The **result of this research showed** that the REST API should provide a search facility to find proper service mode of transportation, cost estimation, time estimation, calling or booking a public transportation, a list of all the modes of transportation that exist, as well as detailed information on a mode of transport in which includes the name of public transportation, index of	M4 (Embedded M3)	S-5	Simple Past	Active

				comfortability, index of security, index of safety, index of privacy, index of availability, index of accessibility index, and route.				
4	Journal of Information Technology and Computer Science (Universitas Brawijaya)	Satrio Agung Wicaksono, Danniar Reza Firdausy, Mochamad Chandra Saputra	Usability Testing on Android Application of Infrastructure and Facility Reporting Management Information System	Decline in quality caused by daily use of facilities and infrastructure owned by an organization **will certainly disrupt** its function in supporting the performance of the organization.	M1	S-1	Simple Future	Active
				The solution that came from the research that **has been conducted** before is to develop android applications called Infiremis (Infrastructure and Facility Reporting Management Information System), that can be used to report damage to facilities and infrastructure and to track the status reporting.	M1	S-4	Present Perfect	Passive
				This android application **was developed** to be used by students, lecturers and staffs of Faculty of Computer Science Brawijaya University which those users has different background persona	M3	S-7	Simple Past	Passive
				Therefore, the usability of this android application **need be tested** to find out the value of effectiveness, efficiency and satisfaction of the application to fulfill its purpose.	M3	S-7	Simple Present	Passive
				This research **was conducted** mainly to discover the result of usability testing towards the android	M2		Simple Past	Passive

No	Journal	Author	Title	Text	Move	S	Tense	Voice
				application of infrastructure and facility reporting management information system.				
				Based on Usability Testing that has been done **show** that the level of effectiveness and satisfaction of Infiremis respectively is 97,14% and 89,7%, whereas for the efficiency score is 89,9%.	M4		Simple Present	Active
5	Journal of Information Technology and Computer Science (Universitas Brawijaya)	Frihandhika Permana, Herman Tolle, Fitri Utaminingrum, Rizdania Dermawi	The Connectivity Between Leap Motion And Android Smartphone For Augmented Reality (AR)-Based Gamelan	The smartphone development today **makes the gadget** not only used as a communication tool but also as an entertainment tool such as to play games and play music.	M1	S-2	Simple Present	Active
				The development of the smartphone also **supports many technologies** that can be run on the smartphone itself, such as Augmented Reality (AR), for example.	M1	S-1	Simple Present	Active
				There are some studies **evaluated** the AR application combined with Leap Motion, but those studies were using the SDK alpha of the Leap Motion Corp. that is now no longer accessible for the developers to use.	M1	S-4	Simple Past	Active
				This research **is meant to** overcome such a problem.	M2		Simple Present	Passive
				The method proposed in this study **is a technique to connect** the Leap Motion with Android for Augmented Reality application.	M3	S-6	Simple Present	Active
				This paper also **evaluates** the technique used to	M3	S-7	Simple Present	Active

				connect the AR technology to Leap Motion so it can be a visual instrument simulation, which applied to the Gamelan traditional music instrument.				
				The experiments **resulted** in the accuracy rate of the application of 96.43% for right-hand movement and 97.86% for the left-hand motion.	M4		Simple Past	Active
				The high accuracy result obtained in the research **can be a promising result** for the future research.	M5	S-8	Simple Present	Active

SINTA 4

No	Journal Name	Author	Title	Abstracts	Moves	Steps	Linguistic Features	
							Tenses	Voice
1	MATICS : Jurnal Ilmu Komputer dan Teknologi Informasi (Journal of Computer Science and Information Technology) Universitas Islam Negeri Maulana Malik Ibrahim Malang	mahmudi, ali	Aplikasi MATLAB untuk Mengenali Karakter Tulisan Tangan	Handwriting recognition **is** one of the very interesting research object in the field of image processing, artificial intelligence and computer vision.	M1	S-2	Simple Present	Active
				This is due to the handwritten characters **is varied** in every individual.	M1	S-1	Simple Present	Active
				The style, size and orientation of handwriting characters **has made** every bodys is different, hence handwriting recognition is a very interesting research object.	M1	S-1	Present Perfect	Active
				Handwriting recognition application **has been used** in quite many applications, such as reading the bank deposits, reading the postal code in letters, and helping peolple in managing documents.	M1	S-4	Present Perfect	Passive
				This paper **presents** a handwriting recognition application using Matlab.	M2		Simple Present	Active

				Matlab toolbox that is used in this research **are** Image Processing and Neural Network Toolbox.	M3	S-6	Simple Present	Active
2	MATICS : Jurnal Ilmu Komputer dan Teknologi Informasi (Journal of Computer Science and Information Technology) Universitas Islam Negeri Maulana Malik Ibrahim Malang	Diantoro, Aris; Santoso, Irwan Budi	Eggs Fertilities Detection System on the Image of Kampung Chicken Egg Using Naive Bayes Classifier Algorithm	Losses in chicken eggs hatchery **make** breeders income declined.	M1	S-1	Simple Present	Active
				The main cause of these things because it **is** less effective and efficient in distinguishing the state of fertilities in the eggs.	M1	S-1	Simple Present	Active
				The detection of fertile and infertile eggs **will automatically provide** ease of selection and removal of the eggs are fertile and infertile eggs.	M1	S-1	Simple Future	Active
				This **will bring** more profits for breeder as well as time efficiency more and selling power.	M1	S-1	Simple Future	Active
				Infertile eggs **will give** breeders the sale price if it is known as early as possible in order not to fail hatching.	M1	S-1	SImple Future	Active
				A method fuzzy c means and naive bayes classifier **is designed to identify** the state of the fertility of eggs.	M2		SImple Present	Passive
				By putting eggs near the source light and black background in a dark room, then **taked** of image with a high qualities camera.	M3	S-7	Simple Past	Active
				From the resulting camera image, then **extracted** features or take characteristics that distinguish between fertile and infertile eggs.	M3	S-7	Simple Past	Active
				The total amount of data used in this study of 450 eggs image **sourced** from the field survey.	M3	S-5	Simple Past	Active
				Training data **is used** 250 data, 125 fertile eggs image data and 125 infertile eggs image data.	M3	S-5	Simple Present	Passive
				As for testing the data using the 200 data, the image data 150 fertile eggs and 50 infertile eggs image data.	M3	S-5	Simple Present	Active
				Based on trial results of training data **is obtained** the best accuracy is equal to 80% at intervals of 5, 86.4% at intervals of 5 and dimensions	M4		Simple Present	Passive

	Journal	Author	Title	Abstract	Move	Step	Tense	Voice
				70x60, and 99.6% on 1x2 resize.				
				The accuracy of the results **obtained** by 78%, 82% and 94% in trials testing data.	M4		Simple Past	Active
3	MATICS : Jurnal Ilmu Komputer dan Teknologi Informasi (Journal of Computer Science and Information Technology) Universitas Islam Negeri Maulana Malik Ibrahim Malang	Nurdewanto, Bambang	Aplikasi Market Matching Berbasis Fuzzy sebagai Penunjang Keputusan Ekspor Produk UMKM	Determining the exact location of the export market with the right amount in the marketing process **is expected** to reduce the number of losses due to the stagnancy of product turnover.	M1	S-1	Simple Present	Passive
				Appropriate target market system **using** fuzzy control on MSMEs.	M3	S-6	Simple Present	Active
				Fuzzy control method **is used to overcome** the determination of a market that is influenced by the subjectivity of marketing actors.	M2		Simple Present	Passive
				Online market matching application which **is** the right decision support system of the right export destination and the right amount so efficient.	M3	S-7	Simple Present	Active
				The result of market matching application of fuzzy method **is** recommendation of destination and quantity that can be exported.	M4		Simple Present	Active
4	MATICS : Jurnal Ilmu Komputer dan Teknologi Informasi (Journal of Computer Science and Information Technology) Universitas Islam Negeri Maulana Malik Ibrahim Malang	Vijaya, Annas	Optimasi dan Reinisiasi Sistematis Pembelajaran Elektronik	One of the IT applications **implemented** in higher education and quite rich in renewable IT features is e-learning.	M1	S-2	Simple Past	Active
				However, facts show that in Indonesia it **appears** that there are not many universities are moved to apply e-learning, in addition, from the other side for others who have implemented e-learning still leads to a pattern that has not been systematic according to its allocation.	M1	S-4	Simple Present	Active
				This paper **will discuss** the optimization and re-initiation of e-learning using a case study.	M2		SImple Future	Active
				In addition to reviewing the aspects of human resources involved in e-learning, the following features and functions **can be developed** in e-learning, such as collaboration, social networking, and so forth.	M3	S-6	Simple Present	Passive

No	Journal Name	Author	Title	Abstracts	Moves	Steps	Tenses	Voice
				This review **is conducted** considering that in addition to e-learning included in the top 10 topics in higher education, e-learning also has the potential as acceleration in the learning process and collaboration on campus..	M3	S-7	Simple Present	Passive
5	MATICS : Jurnal Ilmu Komputer dan Teknologi Informasi (Journal of Computer Science and Information Technology) Universitas Islam Negeri Maulana Malik Ibrahim Malang	Iriananda, Syahroni Wahyu; Muslim, Muhammad Aziz; Dachlan, Harry Soekotjo	Identifikasi Kemiripan Teks Menggunakan Class Indexing Based dan Cosine Similarity Untuk Klasifikasi Dokumen Pengaduan	Report handling on "LAPOR!" system **depends on** the system administrator who manually reads every incoming report [3].	M1	S-1	Simple Present	Active
				Read manually **can lead** to errorsin handling complaints [4] if the data flow is very large and grows rapidly it can take at least three days and sensitive to inconsistencies [3].	M1	S-1	Simple Present	Active
				In this study, the authors **propose** a model that can measure and identify the similarity of document reports computerized that can identify the similarity between the Query (Incoming) with Document (Archive).	M2		Simple Present	Active
				In this study, the authors **employed** term weighting scheme Class-Based Indexing, and Cosine Similarity to analyze document similarities.	M3	S-6	Simple Past	Active
				CoSimTFIDF, CoSimTFICF and CoSimTFIDFICF values **are defined** as feature sets for the text classification process using the KNearestNeighbor (K-NN) method.	M3	S-6	Simple Present	Passive
				The optimum resultevaluation with preprocessing employ Stemming and the bestresult of all features **is** 75% training data ratio and 25% testdata on the CoSimTFIDF feature that is 84%.	M4		Simple Present	Active
				Value k = 5 **has** a high accuracy of 84.12%	M4		Simple Present	Active

SINTA 5

No	Journal Name	Author	Title	Abstracts	Moves	Steps	Linguistic Features	
							Tenses	Voice

	Journal	Author	Title	Abstract	M	S	Tense	Voice
1	Computatio : Journal of Computer Science and Information Systems (UNTAR)	Yohannes Kurniawan , Ogi Sarwengga , Taufiq Febri Dewanto, Wisnu Try Hantoro	ANALISIS DAN PENGEMB ANGAN SISTEM MANAJEM EN PENGETA HUAN BERBASIS PERANGK AT LUNAK OPEN SOURCE (STUDI KASUS)	This study **will describe** the process of identification and categorization of knowledge in PT XYZ as the research object, where the company requires a container that supports the sharing of information for documentation and dissemination of existing knowledge in the company, as well as implementing an open source system for managing knowledge independently and centralized.	M2 (Em bedd ed M3)	S-7	Simple Future	Active
				The research method **is** Inukshuk KM Model and data collection methods used were interviews and observation.	M3	S-6	Simple Present	Active
				The outcome of this research **is** a receptacle for storing and managing knowledge that is easily accessible by the user.	M4		Simple Present	Active
				With the implementation of knowledge management system **is expected** to improve the quality of knowledge sharing among employees, as well as improving the quality of knowledge content in the company.	M5	S-8	Simple Present	Passiv e
2	Computatio : Journal of Computer Science and Information Systems (UNTAR)	Abdi Praja 1 , Chairisni Lubis 2 , Dyah Erny Herdiwindia ti 3	DETEKSI PENYAKIT DIABETES DENGAN METODE FUZZY C-MEANS CLUSTERI NG DAN K-MEANS CLUSTERI NG	Diabetes **is** a disease that occurs when the sugar in the blood is high.	M1	S-1	Simple Present	Active
				Glucose tests **should be taken** of several times to make sure diabetes disease detects in the body.	M1	S-1	Simple Present	Passiv e
				Some indicators of the body conditions **can be** a starting point to detect diabetes.	M1	S-1	Simple Present	Active
				However, the limitations of medical specialist to detect on the large data manually **may still become** a constraint.	M1	S-4	Simple Present	Active

				One of the solution to cover up the gap between them **is performing** technology's in term of computation with the calculation of K-Means clustering and Fuzzy C-Means Clustering method.	M3 (Embedded M2)	S-7	Present Continuous	Active
				It clusters **are composed** of a group of diabetic and non-diabetic.	M3	S-7	Simple Present	Passive
				Dataset **used** in the evaluation process **is** nine variance data.	M3	S-5	Simple Present	Active
				The highest accurate rate for method of K-Means **is** 73,438% and for the Fuzzy C-Means result is 82,812%.	M4		Simple Present	Active
3	Computatio: Journal of Computer Science and Information Systems (UNTAR)	Andre Widjaya, Lely Hiryanto, Teny Handhayani	PREDIKSI MASA STUDI MAHASISWA DENGAN VOTING FEATURE INTERVAL 5 PADA APLIKASI KONSULTASI AKADEMIK ONLINE	Period of study prediction application **is** an application that implement Voting Feature Interval 5 method for its students' period study prediction feature.	M1	S-1	Simple Present	Active
				The result of the prediction **will be used** by head of department and academic advisors **to arrange** a proper study plan for the student.	M2		Simple Future	Passive
				Case study that was used in this application **is** period of study prediction for Computer Science department, Tarumanagara University student, class of 2013 and 2014	M3	S-5	Simple Present	Active
				Learning data that used **was mark of** selected course from Faculty of Information Technology, Tarumanagara University student, class of 2008 until 2012.	M3	S-5	Simple Past	Active
				Voting Fature Interval 5 method **classify** student grade in testing dataset based on voting grade formed by lerning dataset.	M3	S-7	Simple Present	Active
				The result of testing **is** fairly accurate with 73,33% in average	M4		Simple Present	Active

				The human voice **is** a very unique sound wave.	M1	S-2	Simple Present	Active
				That's because every human being **has** a different kind of sound wave	M1	S-1	Simple Present	Active
				The fundamental difference in human voice **is** high the low the sound level associated with the signal from sound waves.	M1	S-1	Simple Present	Active
				The purpose of this research **is to know** the accuracy result from Fast Fourier Transform and Bayes method in pattern recognition.	M2		Simple Present	Active
4	Computatio : Journal of Computer Science and Informatio n Systems (UNTAR)	Nurlia Apriani 1 , Rita Wiryasaputr a 2 , Lastri Widya Astuti 3	PENGENA LAN POLA SUARA MANUSIA BEREKSTE NSI FILE WAV MENGGUN AKAN METODE FAST FOURIER TRANSFOR M DAN BAYES	The Fast Fourier Transform method **is used** for feature extraction and Bayes method is used to calculate the sound probability value between the train data and test data, then Bayes Method is used to determine the result of the introduction of some previously stored train data.	M3	S-7	Simple Present	Passive
				This research **was made** using Matlab R2016a, by matching the pattern of human sound that has been made before or called train data with new sound pattern or called test data	M3	S-6, S-7	Simple Past	Passive
				Testing **is done** on voice in the database and the voice is not in the database.	M3	S-5	Simple Present	Passive
				Test results for voice in the database **were** 96% for first men and 76% for first women.	M4		Simple Past	Active
				While testing for voice **is not** in the database is 46% for second men and 50% for second women.	M4		Simple Present	Active
5	Computatio : Journal of Computer Science and Informatio	Jimmy 1 , Viny Christanti M. 2 , Agus Budi D. 3	DETEKSI KEMIRIPA N SOURCE CODE DENGAN METODE	The ease of accessing information **makes** easier to do plagiarism.	M1	S-1	Simple Present	Active
				Plagiarism **not only applied** to written essay, but these day copying	M1	S-1	Simple Past	Active

					Mov es	Ste ps	Tenses	Voice
	n Systems (UNTAR)		FINGERPRI NT BASED DISTANCE DAN LEVENSHT EIN DISTANCE	other people's program is also considered as plagiarism.				
				This paper **will researching** an method to automatically calculating the similarity of pair of source code.	M2		Simple Future	Active
				The method used **are** fingerprint based distance and Levenshtein Distance	M3	S-6	Simple Present	Active
				The result **will be measured** in accuracy, precision, and recall.	M3	S-5	Simple Future	Passiv e
				The result **is** in some dataset, levenshtein distance **is** better than fingerprint based distance for detecting plagiarism in student's code especially beginner in C++.	M4		Simple Present	Active

SINTA 6

No	Journal Name	Author	Title	Abstracts	Mov es	Ste ps	Linguistic Features	
							Tenses	Voice
1	Jurnal Teknolo gi Informa si dan Komput er (Univ dhyana putra)	I Made Kusuma Wijaya1) Putu Wida Gunawan2) I.G.N Anom Cahyadi Putra	PERANCANG AN DAN IMPLEMENTA SI APLIKASI PEMBELAJAR AN INTERAKTIF ROBOTIC INVENTION SYSTEM PLATFORM MINDSTORM NXT MENGGUNAK AN METODE INKUIRI BERBASIS MACROMEDI A FLASH PLAYER (STUDI KASUS : UNIVERSITAS DHYANA PURA)	Learning media **is** an intructional component that includes messages, people, and tools.	M1	S-1	Simple Present	Active
				Learning media **can also be interpreted** as a tool that serves to convey the message of learning.	M1	S-1	Simple Present	Passive
				To convey learning messages, teachers typically **use** teaching aids such as books, pictures, maps, models, or other tools.	M1	S-2	Simple Present	Active
				In order to **provide** concrete experience, motivation to learn, and increase absorption.	M1	S-1	Simple Present	Active
				Learning media **should be** effective and in accordance with the needs of students.	M1	S-2	Simple Past	Active
				In the development of learning media follow the development of technology Dhyana Pura University **is** one of the campuses located in the city of Denpasar.	M1	S-2	Simple Present	Active

	Journal	Author	Title	Sentence	Move	Step	Tense	Voice
				Where the University Dhyna Pura **has** many courses, especially in informatics engineering courses.	M1	S-2	Simple Present	Active
				In the course of robotics NXT still a little tutorial and how to assemble NXT in NXT robotics courses.	M3	S-7	Simple Present	Active
				Then from that step done **is to make** an aplikasimedia NXT desktop-based robotics learning to simplify and reproduce the tutorial on the course of robotics NXT.	M3	S-7	Simple Present	Active
2	Jurnal Teknologi Informasi dan Komputer (Univ dhyana putra)	I Wayan Supriana	IMPLEMENTASI ALGORITMA GENETIKA DALAM PENENTUAN RUTE TERBAIK PENDISTRIBUSIAN BBM PADA PT BURUNG LAUT	Fuel Oil (BBM) **is** one of the important commodities for the people of Indonesia.	M1	S-2	Simple Present	Active
				BBM **is distributed** by sea.	M1	S-2	Simple Present	Passive
				One of the companies whose fleets are working in the distribution of fuel **is** PT Burung Laut, which is by operating the Tanker MT. Citra Bintang	M1	S-1	Simple Present	Active
				This ship **distributes** fuel to the Maluku and Papua areas.	M1	S-1	Simple Present	Active
				But in its distribution, this ship **does not have** a definite route.	M1	S-1	Simple Present	Active
				Previous research **has been done** by Closeary et al. By using Ant Colony System method.	M1	S-4	Present Perfect	Passive
				In this research, **conducted** the shortest distance search that is passed by ship with Genetic Algorithm method for case study of Traveling Salesman Problem.	M2 (Embedded M3)	S-6	Simple Past	Active
				From the test system that **has been done** as much as 10 times the shortest route **produced** with a distance of 4853 kilometers.	M4		SImple Past	Active
				The route of the ship with the distance **is** Tobelo, Fak - Fak, Kaimana, Tual, Dobo, Merauke, Saumlaki, Namlea, Ambon, Masohi, Sanana, Labuha, and then Ternate	M4		Simple Present	Active
3	Jurnal Teknologi Informasi dan Komputer (Univ	Ni Kadek Ayu Fitriandayani1) Made Agung Raharja2)	PERANCANGAN DAN IMPLEMENTASI SISTEM INFORMASI BEBAN KERJADOSEN	Along with technological developments that are increasingly progressing progress of technology today **has an impact** in improving the effectiveness and efficiency in doing every job.	M1	S-1	Simple Present	Active

dhyana putra)	Christian Tonyjanto3)	BERBASIS WEB (STUDI KASUS : UNIVERSITAS DHYANA PURA BALI)	Usefulness of the computer **has a lot to help** facilitate the work of humans so the existence of this computer is needed.	M1	S-1	Simple Present	Active
			Both individuals, institutions, and governments **take various efforts** to take advantage of this information technology development.	M1	S-1	Simple Present	Active
			Even in education in Indonesia, especially college	M1	S-2	Simple Present	Active
			Each college **has** a Tri Dharma activity of universities undertaken by lecturers covering 4 areas, namely: education and teaching, research, community service, support set by the leadership of the university.	M1	S-2	Simple Present	Active
			Therefore, the lecturer's burden **must be proportionally distributed and measured** by utilizing the development of information technology.	M2		Simple Present	Passive
			One of them **is** a Web-Based Lecturer Information System (BKD) that can help the leader in knowing the lecturer's workload information that is borne and helps the leader in knowing the workload information that is borne by each lecturer.	M3	S-7	Simple Present	Active
4	Jurnal Teknologi Informasi dan Komputer (Univ dhyana putra)	Agus Aan Jiwa Permana1, Gede Aditra Pradnyana	SISTEM REKOMENDASI LOKASI MAGANG BERDASARKAN KOMPETENSI BERBASIS ARTIFICIAL INTELLIGENCE UNTUK LULUSAN DEMAND DRIVEN (STUDI KASUS : JURUSAN MANAJEMEN INFORMATIKA, UNDIKSHA)	This research **is aimed** at providing student location information to students in accordance with their respective competencies.	M2		Simple Present	Passive
			The most important thing **is** to direct students to an apprenticeship location that is in accordance with their competencies because it will greatly influence their career in the future.	M1	S-1	Simple Present	Active
			Armed with skills at the internship location, students **can improve** their competence in accordance with market demand (demand driven).	M1	S-1	Simple Present	Active
			The program at the end of semester 5 at the end of the semester students **have to find** an internship location.	M1	S-1	Simple Present	Active

				Sentence	M	S	Tense	Voice
				Someone **is said** to be competent in a field if it meets the aspects of knowledge, skill and attitude.	M1	S-2	Simple Present	Passive
				Knowledge, skills and attitudes (PKS) **are strongly influenced** by the learning system and learning environment.	M1	S-2	Simple Present	Passive
				The tools developed **are** an application based on Artificial Intelligence using the Elman Recurrent Neural Network (ERNN) method.	M3	S-6	Simple Present	Active
				ERNN **is** a Artificial Terms Network method that has a feedback connection from previous input, so that it is expected to improve the performance of ANN.	M3	S-6	Simple Present	Active
				The structure **makes** iteration will be much faster and convergence will be faster in the training process.	M3	S-7	Simple Present	Active
				The system developed **will be able to produce** apprenticeship location recommendations in accordance with student competencies using previous apprenticeship data.	M3	S-7	Simple Future	Active
				The data used **is measurable** and **includes** a Grade Point Average that represents aspects of knowledge, aspects of skills adapted to subjects related to graduate profiles, personality tests that have international standards developed by John Holland represent aspects of attitude.	M3	S-5	Simple Present	Active
5	Jurnal Teknologi Informasi dan Komputer (Univ dhyana putra)	rdiawan Rivaldi1) Bambang Hadi Kartiko2) Gerson Feoh3	PERANCANGAN APLIKASI PENCATATAN PERKEMBANGAN ANAK BAWAH LIMA TAHUN DAN IBU HAMIL BERBASIS ANDROID DI PUSKESMAS SUMBERSARI KABUPATEN PARIGI	Recording and processing data of mother and child in health book (KIA) at Sumbersari Public Health Center **is still done manually** by handwriting.	M1	S-4	Simple Present	Passive
				Manual KIA book recording **has an impact** on the quality of information contained in KIA books that are not presented optimally.	M1	S-1	Simple Present	Active
				This **resulted** in inhibition of health services and complete immunization to mothers and children, as well as delays in the process of reporting by health personnel.	M1	S-1	Simple Past	Active

		MOUTONG PROVINSI SULAWESI TENGAH	In connection with this, the current study **was conducted** to design and implement the application of maternal and child health recording data based on android system.	M2		Simple Past	Passive
			This application design method **uses** system development life cycle which consists of planning, analysis, design, implementation and usage.	M3	S-6	Simple Present	Active
			The design of this application **using** logic modeling by creating context diagrams, data flow diagrams, and entity relationship diagrams.	M3	S-6	Simple Present	Active
			The application **is made** with android operating system version 6.0.1, and uses java based eclipse, with Angular JS as a web-based framework.	M3	S-7	Simple Present	Passive
			This application **has the ability** or features to record patient demographic data, maternal and child health development checks, medications and vaccines, and periodically display charts and tables of maternal and child health.	M3	S-7	Simple Present	Active
			This android based application **can be used** by midwives and integrated health service cadres with online system.	M3	S-7	Simple Present	Passive

MOVE OCCURRENCES

SINTA 1		SINTA 4	
M1	85	M1	62
M2	23	M2	18
M3	64	M3	57
M4	31	M4	21
M5	14	M5	4
TOTAL	217	TOTAL	162
POLA = M1 - M3 - M4 - M2 - M5		POLA = M1 - M3 - M4 - M2 - M5	
SINTA 2		SINTA 5	
M1	56	M1	49
M2	21	M2	20

M3	62	M3	56
M4	29	M4	19
M5	14	M5	7
TOTAL	182	TOTAL	151
POLA = M3 - M1 - M4 - M2 - M5		POLA = M3 - M1 - M2 - M4 - M5	
SINTA 3		SINTA 6	
M1	62	M1	80
M2	18	M2	20
M3	51	M3	48
M4	19	M4	13
M5	6	M5	2
TOTAL	156	TOTAL	163
POLA = M1 - M3 - M4 - M2 - M5		POLA = M1 - M3 - M2 - M4 - M5	

	Moves 1	Moves 2	Moves 3	Moves 4	Moves 5
SINTA 1	39.17%	10.60%	29.49%	14.29%	6.45%
SINTA 2	30.77%	11.54%	34.07%	15.93%	7.69%
SINTA 3	39.74%	11.54%	32.69%	12.18%	3.85%
SINTA 4	38.27%	11.11%	35.19%	12.96%	2.47%
SINTA 5	32.45%	13.25%	37.09%	12.58%	4.64%
SINTA 6	49.08%	12.27%	29.45%	7.98%	1.23%

STEP OCCURRENCES

SINTA 1			SINTA 4		
S-1	45	**26.32%**	S-1	41	**32.03%**
S-2	10	5.85%	S-2	11	8.59%
S-3	15	8.77%	S-3	10	7.81%
S-4	21	**12.28%**	S-4	3	2.34%
S-5	12	7.02%	S-5	8	6.25%
S-6	14	8.19%	S-6	25	**19.53%**
S-7	40	**23.39%**	S-7	26	**20.31%**
S-8	6	3.51%	S-8	2	1.56%
S-9	4	2.34%	S-9	0	0.00%

S-10	0	0.00%	S-10	0	0.00%
S-11	4	2.34%	S-11	2	1.56%
TOTAL	171	100.00%	TOTAL	128	100.00%

SINTA 2			SINTA 5		
S-1	37	**25.17%**	S-1	37	**30.58%**
S-2	7	4.76%	S-2	5	4.13%
S-3	10	6.80%	S-3	6	4.96%
S-4	11	7.48%	S-4	4	3.31%
S-5	20	**13.61%**	S-5	12	9.92%
S-6	15	10.20%	S-6	15	**12.40%**
S-7	33	**22.45%**	S-7	34	**28.10%**
S-8	10	6.80%	S-8	4	3.31%
S-9	0	0.00%	S-9	2	1.65%
S-10	0	0.00%	S-10	0	0.00%
S-11	4	2.72%	S-11	2	1.65%
TOTAL	147	100.00%	TOTAL	121	100.00%

SINTA 3			SINTA 6		
S-1	41	**32.80%**	S-1	56	**42.42%**
S-2	7	5.60%	S-2	14	**10.61%**
S-3	9	7.20%	S-3	1	0.76%
S-4	9	7.20%	S-4	10	7.58%
S-5	8	6.40%	S-5	5	3.79%
S-6	10	**8.00%**	S-6	14	**10.61%**
S-7	35	**28.00%**	S-7	31	**23.48%**
S-8	4	3.20%	S-8	0	0.00%
S-9	1	0.80%	S-9	1	0.76%
S-10	0	0.00%	S-10	0	0.00%
S-11	1	0.80%	S-11	0	0.00%
TOTAL	125	100.00%	TOTAL	132	100.00%

SINTA 1

M1	91	53.22%
M3	66	38.60%
M5	14	8.19%

SINTA 2

M1	65	44.22%
M3	68	46.26%
M5	14	9.52%

SINTA 3

M1	66	52.80%
M3	53	42.40%
M5	6	4.80%

SINTA 4

M1	65	50.78%
M3	59	46.09%
M5	4	3.13%

SINTA 5

M1	52	42.98%
M3	61	50.41%
M5	8	6.61%

SINTA 6

M1	81	61.36%
M3	50	37.88%
M5	1	0.76%

MOVE SALIENCES

NO	M1						NO	M2					
	SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6		SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6
1	✓	✓	✓	✓	✗	✓	1	✓	✓	✓	✓	✓	✗
2	✓	✓	✓	✓	✓	✓	2	✓	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓	4	✓	✗	✓	✓	✓	✓
5	✓	✓	✓	✓	✓	✓	5	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	6	✓	✓	✓	✓	✓	✗
7	✓	✓	✓	✓	✓	✓	7	✓	✓	✓	✗	✓	✓
8	✓	✓	✓	✓	✓	✓	8	✓	✗	✓	✓	✓	✓
9	✓	✓	✓	✓	✓	✓	9	✓	✓	✓	✓	✓	✓

NO	SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6	NO	SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6
10	✓	✓	✓	✓	✓	✓	10	✗	✗	✗	✓	✓	✓
11	✓	✓	✓	✓	✓	✓	11	✓	✓	✓	✓	✗	✓
12	✓	✓	✓	✓	✓	✓	12	✓	✓	✓	✓	✓	✓
13	✓	✓	✓	✓	✓	✓	13	✓	✓	✗	✓	✓	✓
14	✓	✓	✓	✓	✓	✓	14	✓	✓	✓	✓	✓	✓
15	✓	✓	✓	✓	✓	✓	15	✓	✓	✓	✓	✓	✗
16	✓	✓	✓	✓	✓	✗	16	✓	✓	✗	✓	✓	✓
17	✓	✓	✓	✓	✓	✓	17	✓	✓	✓	✓	✓	✓
18	✓	✓	✓	✓	✓	✓	18	✓	✓	✓	✓	✓	✗
19	✓	✓	✓	✓	✓	✓	19	✓	✓	✓	✓	✓	✓
20	✓	✓	✓	✓	✓	✓	20	✓	✓	✓	✓	✓	✓
TOTAL	100%	100%	100%	100%	95%	95%	TOTAL	95%	85%	85%	95%	95%	80%
	20	20	20	20	19	19		19	17	17	19	19	16
TOTAL M1	118						TOTAL M2	107					
NO	M3						NO	M4					
	SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6		SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6
1	✓	✓	✓	✓	✓	✓	1	✓	✓	✓	✗	✓	✗
2	✓	✓	✓	✓	✓	✓	2	✓	✗	✗	✓	✓	✓
3	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	✓	✓	✗
4	✓	✓	✓	✓	✓	✓	4	✓	✓	✓	✗	✓	✗
5	✓	✓	✓	✓	✓	✓	5	✓	✓	✓	✓	✓	✗
6	✓	✓	✓	✓	✓	✓	6	✓	✓	✗	✓	✗	✓
7	✓	✓	✓	✓	✓	✓	7	✓	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✗	✓	8	✓	✓	✗	✓	✓	✗
9	✓	✓	✓	✓	✓	✓	9	✓	✓	✓	✗	✗	✓
10	✓	✓	✓	✓	✓	✓	10	✓	✓	✓	✗	✓	✓
11	✓	✗	✓	✓	✓	✓	11	✓	✓	✗	✓	✓	✓
12	✓	✓	✓	✓	✓	✓	12	✗	✓	✓	✓	✗	✓
13	✓	✓	✓	✓	✓	✓	13	✓	✓	✓	✓	✓	✗
14	✓	✓	✓	✓	✓	✓	14	✓	✓	✓	✓	✗	✗
15	✓	✓	✗	✓	✓	✓	15	✓	✓	✓	✓	✓	✗

16	✓	✓	✓	✓	✓	✓	16	✗	✓	✓	✓	✓	✗
17	✓	✓	✓	✓	✓	✓	17	✓	✓	✓	✓	✓	✓
18	✓	✓	✓	✓	✓	✓	18	✓	✓	✓	✓	✗	✗
19	✗	✓	✓	✓	✓	✓	19	✓	✓	✗	✓	✓	✗
20	✓	✓	✓	✓	✓	✓	20	✓	✓	✓	✓	✓	✓
TOTAL	95%	95%	95%	100%	95%	100%	TOTAL	90%	95%	75%	80%	75%	45%
	19	19	19	20	19	20		18	19	15	16	15	9
TOTAL M3	116						TOTAL M4	92					

NO	M5					
	SINTA 1	SINTA 2	SINTA 3	SINTA 4	SINTA 5	SINTA 6
1	✓	✓	✗	✗	✓	✗
2	✗	✗	✗	✗	✗	✗
3	✓	✓	✗	✗	✗	✗
4	✓	✓	✗	✗	✗	✗
5	✓	✓	✓	✗	✗	✗
6	✓	✗	✗	✗	✗	✓
7	✗	✗	✓	✗	✓	✗
8	✓	✓	✗	✗	✗	✗
9	✗	✗	✗	✗	✗	✗
10	✗	✗	✓	✗	✗	✗
11	✗	✓	✗	✓	✓	✓
12	✗	✗	✗	✗	✗	✗
13	✓	✓	✗	✓	✓	✗
14	✓	✗	✗	✗	✗	✗
15	✗	✗	✓	✗	✓	✗
16	✗	✗	✓	✗	✓	✗
17	✓	✓	✗	✓	✓	✗
18	✓	✓	✓	✗	✓	✗
19	✗	✓	✗	✓	✗	✗
20	✗	✓	✗	✗	✓	✗
TOTAL	50%	55%	30%	20%	45%	10%

	10	11	6	4	9	2
TOTAL M5	42					

STEP SALIENCES

NO	SINTA 1											SINTA 2										
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
1	✓	✗	✗	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✓	✗	✓	✗	✓	✓	✗	✗	✗
2	✗	✓	✓	✓	✗	✓	✓	✗	✗	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✗	✗	✗
3	✓	✓	✓	✓	✗	✗	✓	✗	✓	✗	✗	✓	✗	✗	✓	✓	✓	✓	✗	✗	✗	✓
4	✓	✗	✓	✗	✗	✓	✓	✓	✓	✗	✗	✓	✓	✓	✗	✓	✓	✓	✗	✗	✗	✗
5	✗	✗	✓	✓	✗	✓	✗	✗	✓	✗	✗	✓	✗	✓	✗	✓	✗	✓	✓	✗	✗	✗
6	✓	✗	✓	✓	✗	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗
7	✓	✗	✓	✗	✓	✓	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✓	✗	✗	✗	✗
8	✓	✗	✗	✓	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✓	✓	✓	✗	✗	✗
9	✗	✓	✓	✓	✗	✗	✓	✗	✗	✗	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗	✗	✗
10	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗
11	✓	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗
12	✓	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗	✓	✗	✓	✓	✓	✗	✗	✗	✗
13	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✓	✗	✓	✗	✓	✓	✗	✓	✗	✗	✗
14	✓	✓	✗	✗	✓	✓	✓	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	✓	✗	✗	✗	✗
15	✓	✗	✓	✓	✗	✗	✓	✗	✗	✗	✗	✓	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗
16	✓	✗	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗
17	✓	✗	✗	✗	✓	✓	✓	✗	✗	✗	✓	✓	✓	✗	✓	✓	✓	✓	✓	✗	✗	✓
18	✓	✓	✓	✓	✗	✓	✓	✓	✗	✗	✗	✓	✗	✗	✗	✓	✓	✓	✗	✗	✗	✓
19	✓	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✓	✓	✗	✗	✗
20	✓	✗	✗	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✗	✓	✗	✓	✓	✗	✗	✓
TOTAL	85%	35%	45%	60%	40%	50%	85%	30%	15%	0%	10%	70%	35%	50%	30%	80%	55%	80%	40%	0%	0%	20%
91	17	7	9	12	8	10	17	6	3	0	2	14	7	10	6	16	11	16	8			4

NO	SINTA 3											SINTA 4										
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
1	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✓	✗	✓	✗	✓	✗	✗	✗	✗	✗
2	✓	✗	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗

NO																						
3	✓	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗
4	✓	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	✓	✓	✗	✗	✗	✗
5	✓	✓	✗	✓	✗	✓	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗
6	✓	✗	✓	✗	✗	✓	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
7	✓	✗	✓	✗	✓	✗	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗
8	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✓	✗	✓	✗	✗	✓	✓	✗	✗	✗	✗
9	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
10	✓	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗
11	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✓	✗	✗	✗	✓
12	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗
13	✓	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✓
14	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗
15	✓	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✓	✓	✗	✗	✓	✗	✓	✗	✗	✗	✗
16	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓	✗	✓	✗	✗	✓	✓	✗	✗	✗	✗
17	✓	✗	✓	✗	✓	✓	✓	✗	✗	✗	✗	✓	✗	✗	✓	✓	✗	✓	✓	✗	✗	✗
18	✓	✓	✗	✓	✗	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗
19	✓	✓	✗	✓	✓	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✓	✗	✓	✓	✗	✗	✗
20	✓	✗	✓	✗	✗	✓	✓	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗
TOTAL	100%	30%	40%	25%	25%	50%	80%	20%	5%	0%	10%	95%	40%	35%	15%	30%	65%	70%	10%	0%	0%	10%
78	20	6	8	5	5	10	16	5	1	0	2	19	8	7	3	6	13	14	2	0	0	2

NO	SINTA 5											SINTA 6										
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
1	✗	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗
2	✓	✗	✗	✓	✓	✗	✓	✗	✗	✗	✗	✓	✓	✗	✓	✗	✓	✗	✗	✗	✗	✗
3	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗
4	✓	✗	✓	✗	✓	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✓	✓	✓	✗	✗	✗	✗
5	✓	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✓	✗	✗	✓	✗	✓	✓	✗	✗	✗	✗
6	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✗	✓	✗	✓	✓	✓	✗	✗	✗
7	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗
8	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗
9	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗
10	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗
11	✓	✗	✓	✗	✓	✓	✓	✓	✗	✗	✗	✓	✗	✗	✓	✗	✓	✓	✗	✓	✗	✗
12	✗	✗	✓	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗

13	✓	✗	✗	✗	✓	✗	✓	✗	✓	✗	✗	✓	✓	✗	✗	✗	✓	✓	✗	✗	✗	✗
14	✓	✗	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗
15	✗	✗	✓	✗	✓	✓	✓	✗	✗	✗	✓	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗
16	✓	✗	✓	✓	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗
17	✓	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓	✓	✗	✗	✓	✗	✓	✓	✗	✗	✗	✗
18	✓	✗	✗	✗	✗	✓	✓	✗	✓	✗	✗	✓	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗
19	✓	✗	✗	✓	✓	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗
20	✓	✗	✓	✗	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✗	✓	✗	✗	✗	✗
TOTAL	85%	20%	35%	15%	55%	55%	80%	20%	10%	0%	20%	95%	45%	5%	45%	25%	45%	95%	5%	5%	0%	0%
79	17	4	7	3	11	11	16	4	2	0	4	19	9	1	9	5	9	19	1	1	0	0

LINGUISTIC FEATURES

MOVE 1									
SP	SF	SPR	PP	PRP	PC	PRC	FC	P	A
31	11	318	2	30	0	3	0	81	314

MOVE 2									
SP	SF	SPR	PP	PRP	PC	PRC	FC	P	A
25	7	79	0	0	0	1	0	23	89

MOVE 3									
SP	SF	SPR	PP	PRP	PC	PRC	FC	P	A
72	12	220	0	5	0	5	2	99	217

MOVE 4									
SP	SF	SPR	PP	PRP	PC	PRC	FC	P	A
48	2	82	0	2	0	0	0	11	123

MOVE 5									
SP	SF	SPR	PP	PRP	PC	PRC	FC	P	A
11	1	34	0	1	0	0	0	13	34

TENSES

	SINTA 1						SINTA 2						SINTA 3					
	Pr	%	P	%	Ft	%	Pr	%	P	%	Ft	%	Pr	%	P	%	Ft	%
M1	73	86%	10	12%	2	2%	50	89%	4	7%	2	4%	55	86%	8	13%	1	2%
M2	15	79%	4	21%	0	0%	12	63%	6	32%	1	5%	10	59%	7	41%	0	0%
M3	47	73%	15	23%	2	3%	44	79%	11	20%	1	2%	29	64%	15	33%	1	2%
M4	22	71%	9	29%	0	0%	16	52%	15	48%	0	0%	12	57%	9	43%	0	0%
M5	10	71%	3	21%	1	7%	7	64%	4	36%	0	0%	4	57%	3	43%	0	0%
	SINTA 4						SINTA 5						SINTA 6					
	Pr	%	P	%	Ft	%	Pr	%	P	%	Ft	%	Pr	%	P	%	Ft	%

M1	56	89%	3	5%	4	6%	44	92%	3	6%	1	2%	73	92%	5	6%	1	1%
M2	16	84%	1	5%	2	11%	13	68%	3	16%	3	16%	14	74%	4	21%	1	5%
M3	35	71%	12	24%	2	4%	37	71%	10	19%	5	10%	38	76%	9	18%	3	6%
M4	12	55%	8	36%	2	9%	16	84%	3	16%	0	0%	6	60%	4	40%	0	0%
M5	3	75%	1	25%	0	0%	9	100%	0	0%	0	0%	2	100%	0	0%	0	0%

VOICES

	SINTA 1				SINTA 2				SINTA 3				SINTA 4				SINTA 5				SINTA 6			
	A	%	P	%	A	%	P	%	A	%	P	%	A	%	P	%	A	%	P	%	A	%	P	%
M1	61	70%	26	30%	47	84%	9	16%	52	81%	12	19%	53	84%	10	16%	42	88%	6	13%	61	77%	18	23%
M2	16	84%	3	16%	14	74%	5	26%	12	71%	5	29%	17	89%	2	11%	16	84%	3	16%	14	74%	5	26%
M3	45	70%	19	30%	40	71%	16	29%	31	69%	14	31%	38	78%	11	22%	27	52%	25	48%	36	72%	14	28%
M4	29	94%	2	6%	25	81%	6	19%	21	100%	0	0%	21	95%	1	5%	18	95%	1	5%	9	90%	1	10%
M5	12	86%	2	14%	8	73%	3	27%	7	100%	0	0%	1	25%	3	75%	5	56%	4	44%	1	50%	1	50%

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