Japanese

Appendix A - 80 Rules of Plain English

Overview

Our goal when using the principles of Plain English is to make our text readable, so that our intended message, as the author, corresponds as closely as possible to the message our reader understands, based on our discussion. We use Plain English to promote a one-to-one correspondence between what we want to communicate to our readers, and what our readers understand us to have communicated; a one-to-one correspondence between the written message, and the understood message.

There are four basic principles of Plain English; Cohesiveness, Directness, Economy and Appropriateness. These 4 principles in turn each govern 4 specific guidelines of language usage, for a total of 16 guidelines. The guidelines likewise govern a total of 80 separate rules. These rules are not grammatical rules, for the most part, but represent preferred strategies, or tendencies, that if employed, will work together to produce text that is clear, concise and correct. The 4 principles, 16 guidelines and 80 rules are all listed below. The numbers for the actual rules are based on the order in which they were introduced in the original text in which they were first published (Plain Written English), and are of no particular relevance here, other than as indicators for the rules mentioned in the body of the present text.

1. PRINCIPLE OF COHESIVENESS

a. Conform to Context

(1) Use context to determine best word choice (W)

(4) Use present tense, active voice, first person sing. (S)

(13) Know the intended audience, and write to it (P)

(14) Choose a design and stick to it (P)

(15) Use the correct articles (*a, an, the*) (P)

b. Use a Logical Order

(5) Use basic Subject-Verb-Object word order (S)

(6) Avoid Passive, Causative and Conditional structures (S)

(7) Place prepositions correctly in parallel structures (S)

(16) Organize material logically by linking paragraphs (P)

(17) Begin a paragraph with a good topic sentence (P)

(18) Using facts and statistics in supporting statements (P)
(19) Using examples and lists as supporting statements (P)
(20) Using opinions as supporting statements (P)
(21) Making statements of comparison and contrast (P)
(22) Using the cause and effect sequence (P)
(23) Making clear transitions within a paragraph (P)
(24) Summarizing your points (P)
(25) Emphasizing your points (P)

c. Be Consistent

(2) Choose words from same level of formality (W)
(3) Avoid mixing common words with technical ones (W)
(8) Keep tense the same in parallel structures (S)
(9) Keep types of words the same (S)
(10) Keep degrees of adjectives the same (S)
(26) Avoid shifts in person (P)
(27) Avoid shifts in number (P)
(28) Avoid shifts in voice (P)
(29) Avoid shifts in tense (P)
(30) Avoid shifts in subject.(P)
(31) Keep references, labels, measurement units same (P)

d. Avoid Distractions

(11) Avoid overly simple structures (S)
(12) Avoid Perfect and Subjunctive tenses (S)
(32) Avoid needless repetition of words (P)

2. PRINCIPLE OF DIRECTNESS

a. State what things are, not what they seem to be

(33) Use concrete terms (W)
(34) Avoid lexical ambiguity (W)
(36) State what things are, not what they seem to be (S)
(37) Avoid syntactic ambiguity (S)
(43) Avoid overstatement and exaggeration (P)
(44) Separate fact from opinion (P)

b. State the subject clearly

(35) Avoid indirect and unspecific subject/object (W)

(38) Reduce adverbial and adjectival phrases (S)

(39) Using scope to avoid misplaced adverbs (S)

(40) Avoid subject ambiguity: Use correct pronouns (S)

(41) Avoid ambiguity: Use correct reflexive pronouns (S)

(45) Avoid mixing subjects and objects up (P)

(46) Focus on the message: Place writer in background (P)

c. Avoid negatives whenever possible

(42) Avoid negative expressions and double negatives (S)

(48) Avoid spite and sarcasm (P)

(49) Be direct, but not too direct (P)

d. State the "bottom line" succinctly

(47) Avoid developing ideas that you will dismiss later (P)

3. PRINCIPLE OF ECONOMY

a. Brief is best

(50) Use words you know (W)

(54) Restrict length of sentences (S)

(55) Keep sentences separate in ambiguous situations (S)

(56) Avoid restatement and redundancy (S)

(57) Avoid wordiness (S)

(58) Use mainly nouns and verbs (S)

(59) Avoid overuse and misuse of adjectives (S)

(60) Avoid overuse and misuse of adverbs (S)

(66) Underwrite, rather than overwrite (P)

(67) Be brief and concise: Break writing up (P)

b. Common words are preferred over uncommon words

(51) Use common instead of uncommon words (W)

(52) Define/Gloss new expressions (W)

(53) Avoid coining new words and phrases (W)

c. Avoid subordinate clauses

(61) Avoid reported speech (S)

(62) Subordinate conjunctions (*who, which* & *that)* (S)

(63) Using *when* and *while* as conjunctions (S)

d. Discuss one point per statement

(64) Avoid run-on sentences (S)

(65) Avoid unrelated ideas in the same sentence (S)

(68) Develop your discussion one step at a time (P)

4. PRINCIPLE OF APPROPRIATENESS

a. Be truthful and show politeness and respect for others

(69) Use appropriate gender references (W)

(70) Use neutral words (W)

(73) Tell the truth (S)

(74) Avoid sweeping generalizations and stereotyping (S)

(75) Avoid sexist, racist and prejudiced comments (S)

(80) Use neutral tone: Avoid inference & implication (P)

b. Avoid idioms and slang, especially the more obscure regional variations

(71) Avoid colloquialism, clichés & slang (W)

c. Avoid contractions and casual speech rules

(72) Avoid uncommon contractions (W)

d. Use grammatically correct sentences

(76) Keep tense and number in agreement (S)

(77) Choosing prepositions (S)

(78) Avoid dangling modifiers (S)

(79) Avoid Incomplete Sentences (S)

(W) refers to a rule primarily involved at the *word* level of usage.
(S) refers to a rule primarily involved at the *sentence* level of usage.
(P) refers to a rule primarily involved at the *paragraph* level of usage.

Print

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(2) Choose words from same level of formality (W)

Bad	Good
“From the renewal argument, it is sufficient to consider the system behaviour for one cycle and we drop the discrete time index *i* (*i* = 1,2,…) in the following discussion.”	From the renewal argument, it is sufficient to consider the system behavior for one cycle so we omit the discrete time index *i* (*i* = 1,2,…) in the following discussion.
“To our best knowledge, this is the first paper that gives a circumstantial evidence suggesting that the open operation could be solved affirmatively.”	We believe that this is the first documented circumstantial evidence suggesting that the open operation could be solved affirmatively.

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(3) Avoid mixing common words with technical ones (W)

Bad	Good
"From the renewal argument, it is sufficient to consider the system behaviour for one cycle and we drop the discrete time index *i* (*i* = 1,2,…) in the following discussion."	From the renewal argument, it is sufficient to consider the system behavior for one cycle so we omit the discrete time index *i* (*i* = 1,2,…) in the following discussion.
"Namely, we will represent the maximum delay *d*(*v*,0) (*d*(*v*,1)) spent for transmitting logic value 0 (1) from a primary input to terminal *v* by the longest path length *d*(*v*0) (*d*(*v*1) from a source to 0-vertex (1-vertex) of terminal *v*, where the longest path length *d*(x) from a source to vertex *x* is the maximum sum of weights of edges on a path from a source to *x*."	Namely, we will represent the maximum delay *d*(*v*,0) (*d*(*v*,1)) spent for transmitting logic value 0 (1). The logic value 0 (1) is derived from a primary input to terminal *v* by the longest path length *d*(*v*0) (*d*(*v*1) from a source to 0-vertex (1-vertex) of terminal *v*. The longest path length *d*(*x*) from a source to vertex *x* is the maximum sum of weights of edges on a path from a source to *x*.
"Work on the problem has resulted in a flood of papers [1] - [4]."	Work on the problem has resulted in numerous papers [1] - [4].

1. PRINCIPLE OF COHESIVENESS

a. Conform to Context

(4) Use present tense, active voice, first person sing (S)

Bad	Good
"The information theoretic measure has been shown to be useful to evaluate the performance of the attack as well as to show deviations in certain attacks are of no use to derive secret information."	The information theoretic measure can be used to evaluate the performance of the attack as well as to show that deviations in certain attacks are of no use in deriving secret information.
"…the decreasing properties on the parameters above seems to be natural."	…the decreasing properties on the parameters above seem natural.
"In Table 3, it is found that the optimal checkpoint interval increases except for the column of Ozbaykal approximations…."	In Table 3, the optimal checkpoint interval increases except for in the column of Ozbaykal approximations….
"As an empirical model which is developed to fit collected data a mixture model is commonly used."	A mixture model is commonly used as an empirical model which is developed to fit collected data.
"To verify the practicability…, simulation have been performed…" "The specifications of simulations…, for which our experiments have been attempted from the following aspects."	To verify the practicability…, we performed simulations… We attempted several experiments on the specification of simulations based on the following conditions.
"Here, the problem of algorithm HL is discussed."	Here, we discuss the problem of the algorithm HL.
"…was expressed…" (…time and cost was expressed as a …function…) "…was derived…" (…function was derived that a … problem based on MTR was *NP*-hard.) "…was given as…" (…method was given as a non-linear programming…)	…is… (…time and cost is a …function…) …is… (…function is based on a *NP*-hard MTR…) …is… (…non-linear programming is the method…)

“Miller, et al. [8] has been proposed an adaptive predictive PID control scheme based on a generalized predictive control (GPC) [10] criterion.”	Miller, et al. [8] proposed an adaptive predictive PID control scheme based on a generalized predictive control (GPC) criterion [10].
“On the other hand, as one of self-tuning control schemes for such systems, GPC scheme [10] had been proposed by Clarke et al.”	On the other hand, Clarke et al. proposed the GPC scheme as one of self-tuning control schemes for such systems [10].
“It is found that the proportional gain (…) changes in the transient state, and converges on (…) in the steady state.”	We found that the proportional gain (…) changes in the transient state, and converges on (…) in the steady state.
“In [6], it is described that introducing the ad-hoc concept to cellular systems is effective on efficient usage of frequency bands as follows.”	Introducing the ad-hoc concept to cellular systems is effective for efficient usage of frequency bands [6], as follows.
“A new protocol, termed FGS (Flooding Gateway Selection) protocol, between a cluster head and its gateways to realize SGF is presented.”	A new protocol, termed the Flooding Gateway Selection (FGS) protocol, is presented between a cluster head and its gateways to realize SGF.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(5) Use basic Subject-Verb-Object word order (S)

Bad	Good
“From the other point of view, industrial view point, logic circuits in actual products should not contain so much logical redundancy to guarantee high testability of the circuits.”	From another point of view, the industrial view point, logic circuits in actual products should not contain a significant amount of logical redundancy in order to guarantee high testability of the circuits.
“The quad-tree partitioning scheme is one scheme of handling blocks of various sizes efficiently.”	The quad-tree partitioning scheme is one scheme of efficiently handling blocks of various sizes.
“By using this merging scheme, range blocks of various shapes as well as of various sizes, which are called range “regions” more appropriately rather than range “blocks”, are able to be obtained.”	By using this merging scheme, we can obtain range blocks of various sizes and shapes, called range “regions”.
“In fact, moderate-size networks used in testing randomized FPTAS in [16] can be analyzed by ours exactly. Here it should be noted that ours is an exponential algorithm, although its time complexity is mildly growing….”	In fact, moderate-size networks used in testing randomized FPTAS in [16] can be precisely analyzed by our algorithm. Here it should be noted that our algorithm is exponential, although its time complexity is slightly increasing….
“…the right sons are definitely not included in the searched range, therefore, the right sons are not needed to be visited.”	…the right sons are definitely not included in the searched range, therefore, they do not need to be visited.
“As an empirical model which is developed to fit collected data a mixture model is commonly used.”	A mixture model is commonly used as an empirical model which is developed to fit collected data.

“To verify the practicability…, simulation have been performed…” “The specifications of simulations…, for which our experiments have been attempted from the following aspects.”	To verify the practicability…, we performed simulations… We attempted several experiments on the specification of simulations based on the following conditions.
“Here, the problem of algorithm HL is discussed.”	Here, we discuss the problem of the algorithm HL.
“…was expressed…” (…time and cost was expressed as a …function…) “…was derived…” (…function was derived that a … problem based on MTR was *NP*-hard.) “…was given as…” (…method was given as a non-linear programming…)	…is… (…time and cost is a …function…) …is… (…function is based on a *NP*-hard MTR…) …is… (…non-linear programming is the method…)
“But the detailed manipulation for this algorithm is described in Appendix A.”	The detailed manipulation for this algorithm is described in Appendix A.
“Miller, et al. [8] has been proposed an adaptive predictive PID control scheme based on a generalized predictive control (GPC) [10] criterion.”	Miller, et al. [8] proposed an adaptive predictive PID control scheme based on a generalized predictive control (GPC) criterion [10].
“It is important how to tune the control parameters in PID control laws….”	How to tune the control parameters is important in PID control laws. (or) Tuning the control parameters is important in PID control laws.
“On the other hand, as one of self-tuning control schemes for such systems, GPC scheme [10] had been proposed by Clarke et al.”	On the other hand, Clarke et al. proposed the GPC scheme as one of self-tuning control schemes for such systems [10].
“It is found that the proportional gain (…) changes in the transient state, and converges on (…) in the steady state.”	We found that the proportional gain (…) changes in the transient state, and converges on (…) in the steady state.

“Since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has smaller area, a lower parasitic capacitance is realized.”	A lower parasitic capacitance is realized since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has a smaller area.
“Therefore, the proposed filter is expected to be altered with a microcomputer and so on.”	Therefore, the proposed filter can be altered by devices such as a microcomputer.
“It is see from Eq. (1) that the transfer functions of any 2^{nd} order filter characteristics can be obtained by appropriately setting parameters….”	The transfer functions of any 2^{nd} order filter characteristics can be obtained by appropriately setting parameters…which can be seen in Eq. (1).
“It is noted that this lossless integrator can be only used in a feedback loop due to proper bias setting.”	This lossless integrator can only be used in a feedback loop due to proper bias setting.
“Moreover, this filter can be programmed the filter type even after it is fabricated by changing the switch status pattern of the built-in switches.”	Moreover, the type of this filter can be programmed even after it is fabricated by changing the status pattern of the built-in switches.
“It is confirmed that according to changes in the switch status pattern as shown in Table 2, the proposed universal biquad filter can certainly realize all filter types of a 2nd order function.” “Therefore it is confirmed that the cutoff (center) frequency of the proposed filter is easily timed by the bias current.”	The proposed universal biquad filter can realize all filter types of a 2nd order function according to changes in the switch status pattern, as shown in Table 2. We confirmed that the cutoff (center) frequency of the proposed filter is easily timed by the bias current.
“One of our future problems is fabricate this fully digitally programmable filter system with controlling the ….values.”	A problem for the future is to fabricate this fully digitally programmable filter system by controlling the ….values.
“On the other hand, when they belong to neighboring different coherent regions, they fire synchronously….”	On the other hand, when they belong to different coherent neighboring regions, they fire synchronously….

“Assuming that the background noise is represented as generated by exciting a linear system with a white noise, then we can reconstruct the background noise from the prediction error signal by estimating the transfer function of noise generation system.”	We can reconstruct the background noise, assuming that it is represented as being generated by exciting a linear system with a white noise, from the prediction error signal by estimating the transfer function of the noise generation system.
“From this result it can be seen that the improvement of 7.0dB in *SNR* has been obtained .”	Based on these results, an improvement of 7.0 dB in *SNR* has been obtained.
“It has been proven that the proposal noise reduction technique is available under the practical environment.”	We have proven that the proposed noise reduction technique is viable in the normal environment.
“On the other hand, novel concepts for mobile communication have been considered. Ad-hoc networking [2] – [5] is one of the concepts.”	On the other hand, novel concepts for mobile communication, such as Ad-hoc networking [2] – [5], have been considered.
“In [6], it is described that introducing the ad-hoc concept to cellular systems is effective on efficient usage of frequency bands as follows.”	Introducing the ad-hoc concept to cellular systems is effective for efficient usage of frequency bands [6], as follows.
“This approach takes the size of a cell, the communication range, the traffic intensity in a cell, randomly distributed nodes, a call admission policy and behavior of traffic flows into account.”	This approach takes into account the size of a cell, the communication range, the traffic intensity in a cell, randomly distributed nodes, a call admission policy and behavior of traffic flows.
“A new protocol, termed FGS (Flooding Gateway Selection) protocol, between a cluster head and its gateways to realize SGF is presented.”	A new protocol, termed the Flooding Gateway Selection (FGS) protocol, is presented between a cluster head and its gateways to realize SGF.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(6) Avoid Passive, Causative and Conditional structures (S)

Bad	Good
“The information theoretic measure has been shown to be useful to evaluate the performance of the attack as well as to show deviations in certain attacks are of no use to derive secret information.”	The information theoretic measure can be used to evaluate the performance of the attack as well as to show that deviations in certain attacks are of no use in deriving secret information.
“…the decreasing properties on the parameters above seems to be natural.”	…the decreasing properties on the parameters above seem natural.
“In Table 3, it is found that the optimal checkpoint interval increases except for the column of Ozbaykal approximations….”	In Table 3, the optimal checkpoint interval increases except for in the column of Ozbaykal approximations….
“Range blocks of not only various sizes but also various shapes, which are called range “regions” more appropriately, are able to be obtained by using region segmentation techniques.”	Range blocks of various sizes and shapes, which are appropriately called range “regions”, can be obtained by using region segmentation techniques.
“In [6], another merging scheme where merging was applied to surrounding blocks in a predetermined order was proposed. In these merging schemes, the restriction on the locations of range regions is removed. However, the variety of region shapes is still somewhat restricted.”	In [6], another merging scheme where merging was applied to surrounding blocks in a predetermined order was proposed. In these merging schemes, the restriction on the locations of range regions was removed. However, the variety of region shapes was still somewhat restricted.
“The range blocks are also able to be classified into several classes for encoding in different manners.”	The range blocks can be classified into several classes for encoding in different manners.

“By using this merging scheme, range blocks of various shapes as well as of various sizes, which are called range “regions” more appropriately rather than range “blocks”, are able to be obtained.”	By using this merging scheme, we can obtain range blocks of various sizes and shapes, called range “regions”.
“…the right sons are definitely not included in the searched range, therefore, the right sons are not needed to be visited.”	…the right sons are definitely not included in the searched range, therefore, they do not need to be visited.
“In practice it is often considered to be sufficient to prevent from analyzing a decoder by supplying subscribers with so-called secure hardware solutions, say smartcards.”	In practice, supplying subscribers with so-called secure hardware solutions, such as smartcards, is often sufficient to prevent (unlicensed users?) from analyzing a decoder.
“As an empirical model which is developed to fit collected data a mixture model is commonly used.”	A mixture model is commonly used as an empirical model which is developed to fit collected data.
“To verify the practicability…, simulation have been performed…” “The specifications of simulations…, for which our experiments have been attempted from the following aspects.”	To verify the practicability…, we performed simulations… We attempted several experiments on the specification of simulations based on the following conditions.
“Here, the problem of algorithm HL is discussed.”	Here, we discuss the problem of the algorithm HL.
“…was expressed…” (…time and cost was expressed as a …function…) “…was derived…” (…function was derived that a … problem based on MTR was *NP*-hard.) “…was given as…” (…method was given as a non-linear programming…)	…is… (…time and cost is a …function…) …is… (…function is based on a *NP*-hard MTR…) …is… (…non-linear programming is the method…)
“Miller, et al. [8] has been proposed an adaptive predictive PID control scheme based on a generalized predictive control (GPC) [10] criterion.”	Miller, et al. [8] proposed an adaptive predictive PID control scheme based on a generalized predictive control (GPC) criterion [10].

“On the other hand, as one of self-tuning control schemes for such systems, GPC scheme [10] had been proposed by Clarke et al.”	On the other hand, Clarke et al. proposed the GPC scheme as one of self-tuning control schemes for such systems [10].
“It is found that the proportional gain (…) changes in the transient state, and converges on (…) in the steady state.”	We found that the proportional gain (…) changes in the transient state, and converges on (…) in the steady state.
“Since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has smaller area, a lower parasitic capacitance is realized.”	A lower parasitic capacitance is realized since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has a smaller area.
“Therefore, the proposed filter is expected to be altered with a microcomputer and so on.”	Therefore, the proposed filter can be altered by devices such as a microcomputer.
“It is see from Eq. (1) that the transfer functions of any 2nd order filter characteristics can be obtained by appropriately setting parameters….”	The transfer functions of any 2nd order filter characteristics can be obtained by appropriately setting parameters…which can be seen in Eq. (1).
“It is noted that this lossless integrator can be only used in a feedback loop due to proper bias setting.”	This lossless integrator can only be used in a feedback loop due to proper bias setting.
“It is confirmed that according to changes in the switch status pattern as shown in Table 2, the proposed universal biquad filter can certainly realize all filter types of a 2nd order function.” “Therefore it is confirmed that the cutoff (center) frequency of the proposed filter is easily timed by the bias current.”	The proposed universal biquad filter can realize all filter types of a 2nd order function according to changes in the switch status pattern, as shown in Table 2. We confirmed that the cutoff (center) frequency of the proposed filter is easily timed by the bias current.
“Assuming that the background noise is represented as generated by exciting a linear system with a white noise, then we can reconstruct the background noise from the prediction error signal by estimating the transfer function of noise generation system.”	We can reconstruct the background noise, assuming that it is represented as being generated by exciting a linear system with a white noise, from the prediction error signal by estimating the transfer function of the noise generation system.

“From this result it can be seen that the improvement of 7.0dB in *SNR* has been obtained .”	Based on these results, an improvement of 7.0 dB in *SNR* has been obtained.
“It has been proven that the proposal noise reduction technique is available under the practical environment.”	We have proven that the proposed noise reduction technique is viable in the normal environment.
“In [6], it is described that introducing the ad-hoc concept to cellular systems is effective on efficient usage of frequency bands as follows.”	Introducing the ad-hoc concept to cellular systems is effective for efficient usage of frequency bands [6], as follows.
“A new protocol, termed FGS (Flooding Gateway Selection) protocol, between a cluster head and its gateways to realize SGF is presented.”	A new protocol, termed the Flooding Gateway Selection (FGS) protocol, is presented between a cluster head and its gateways to realize SGF.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(7) Place prepositions correctly in parallel structures (S)

Bad	Good
“On the other hand, as one of self-tuning control schemes for such systems, GPC scheme [10] *had been proposed* by Clarke et al.”	On the other hand, Clarke et al. *proposed* the GPC scheme as one of self-tuning control schemes for such systems [10].

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(8) Keep tense the same in parallel structures (S)

Bad	Good
"The distribution shown in the figure can be classified to 3 categories. Category 1: this category mainly includes long routes. Category 2: the routes in this category are so simple that little time is needed. Category 3: This category includes the routes on really difficult patterns."	The distribution shown in the figure can be divided into 3 categories: (1) those that mainly include long routes; (2) those that are so simple that little time is needed, and; (3) those that are routes on really difficult patterns.
"This model may neglect many aspects of probabilistic link failures (say, burst, error caused by correlation), and yet it is really simple and captures some important aspects of reliability."	This model may neglect many aspects of probabilistic link failures (for example, burst error caused by correlation), and yet it is both simple and robust, capturing some important aspects of reliability.
"Therefore, it is possible to change the filter type with a microcomputer and so on by using this digitally programmable feature of the proposed universal biquad filter."	Therefore, it is possible to change the filter type with devices such as a microcomputer by using this digitally programmable feature of the proposed universal biquad filter.
"1) Check marker embedding: A check marker is embedded into a macroblock… 2) Error Addition: One bit error with [an] error rate of…. 3) Error detection performance: We investigate how each condition… 4) PSNR calculation: To investigate the influence of the check marker embedding…"	Check marker embedding: Check marker embedded into a macroblock… 2) Error Addition: One bit error with [an] error rate of…. 3) Error detection performance: Conditions' contributions to error detection. 4) PSNR calculation: Check marker influence on picture quality…

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(9) Keep types of words the same (S)

Bad	Good
“From the renewal argument, it is sufficient to consider the system behaviour for one cycle and we drop the discrete time index *i* (*i* = 1,2,…) in the following discussion.”	From the renewal argument, it is sufficient to consider the system behavior for one cycle so we omit the discrete time index *i* (*i* = 1,2,…) in the following discussion.
“…the information on the main memory since the last checkpoint is back-uped in a secondary medium.”	…the information in the main memory since the last checkpoint is backed up in a secondary medium.
“Among them, MUSIC is most well-known for its super-resolution capability and simpleness.”	Among them, MUSIC is best known for its super-resolution capability and its simplicity.
“These high-level object Petri nets aim to describe real applications in an object-oriented manner….”	These high-level object Petri nets are used to describe real applications in an object-oriented manner…..
“If the following syntax and semantic violations occur in the quantized DCT coefficients…”	If the following syntactic and semantic violations occur in the quantized DCT coefficients…
“When we have computer [*equation*] for an [*equation*], all we have to do is to increment the counter for [*equation*] by one.”	When we have computer [*equation*] for an [*equation*], all we have to do is to increase the counter for [*equation*] by one increment.
“Thereby, the approximation of Eq. (2) is not obtained with accuracy.”	Thereby, the approximation of Eq. (2) is not obtained accurately.
“It has been proven that the proposal noise reduction technique is available under the practical environment.”	We have proven that the proposed noise reduction technique is viable in the normal environment.

1. PRINCIPLE OF COHESIVENESS

d. Avoid Distractions

(11) Avoid overly simple structures (S)

Bad	Good
"…the statistical static timing analysis becomes important [for] designing high speed and low power VLSIs. Because, designers often set excessive margins derived from the worst-case analysis…"	…the statistical static timing analysis becomes important [for] designing high speed and low power VLSIs since designers often set excessive margins derived from the worst-case analysis…
"The basic idea for estimating the routing cost for 3-terminal nets is the same as for 2-terminal nets. Only the difference between the two cases is the number of indexes of the table."	The basic idea for estimating the routing cost for 3-terminal nets is the same as for 2-terminal nets, where the only difference between the two cases is the number of indexes (indices) of the table.
"On the other hand, novel concepts for mobile communication have been considered. Ad-hoc networking [2] – [5] is one of the concepts."	On the other hand, novel concepts for mobile communication, such as Ad-hoc networking [2] – [5], have been considered.

1. PRINCIPLE OF COHESIVENESS

a. Conform to Context

(15) Use the correct articles (a, an, the) (P)

Bad	Good
“Nowadays, computer and communications are inevitably connected to each other.”	Recently, computers and communications have become closely connected to one another.
“As effective query vectors, let us introduce V1, V2, and V3, which will respectively be used to determine whether a term ds is odd number or even.(...)”	As effective query vectors, let us introduce V1, V2, and V3, which will respectively be used to determine whether a term ds is an odd or an even number (...).
“If the larger generations of checkpoints are frequently executed, the larger overhead for them will be incurred.”	If larger generations of checkpoints are frequently executed, larger overhead for them will be incurred.
“The function *h(x)* is called *switching function* in this paper and satisfies the following relationship;….”	The function *h(x)* is called a *switching function* and satisfies the following relationship;….
“Range blocks of not only various sizes but also various shapes, which are called range “regions” more appropriately, are able to be obtained by using region segmentation techniques.”	Range blocks of various sizes and shapes, which are appropriately called range “regions”, can be obtained by using region segmentation techniques.
“Because the outline is to be closed, blocks situated in one-block wide structure are passed twice or more.”	Because the outline is to be closed, blocks situated in a one-block wide structure are passed two or more times.

(from Summary) "Generating state spaces is one of important and general methods in the analysis of Petri nets." (from Introduction) "Generating state spaces is one of important and general methods in the analysis of Petri nets."	(from Summary/Introductory Statement) Generating state spaces is one of the most important and general methods in the analysis of Petri nets. (from Introduction/Introductory Statement) In this paper, we propose an efficient algorithm for exploring the state spaces of Petri nets with large capacities.
"This paper is concerned with the question which is open since 1986."	This paper is concerned with a question first raised in 1986.
"In order to confirm the validity of the derived performance bound, the simulation of iterative decoding based on BCJR algorithm have been executed."	In order to confirm the validity of the derived performance bound, a simulation of iterative decoding based on the BCJR algorithm was executed.
"The local contrast modification factor can be designed by the following four steps."	The local contrast modification factor can be designed by following these four steps. (or) The local contrast modification factor recognizes the following four points.
"However, in case that the Signal to Noise Ratio (SNR) is low, the DSP-PLL can not pull in the frequency offset and the phase offset…."	However, in the case that the Signal to Noise Ratio (SNR) is low, the DSP-PLL can not pull in the frequency offset and the phase offset….
"In case the bit rate of the modulation signal…. "In case the average and the variance…."	In the case that the rate of the modulation signal…. In the case where the average and the variance….
"From above considerations, the [*equation*] is composed of the narrow band signal and the wide band signal."	From the above considerations, the [*equation*] is composed of the narrow band signal and the wide band signal.
"We have found all the four weights of coset leaders by only generating five pairs (…) without generating all the 16 pairs."	We have found all four weights of the coset leaders by generating only five pairs (…) without generating all 16 pairs.

“However, in practice, since it is considerably difficult to determine the PID parameters suitability, lots of researches have been reported with respect to tuning schemes of PID parameters.”	However, in practice, since it is extremely difficult to determine the PID parameters, a significant amount of research has been undertaken with respect to the tuning schemes of PID parameters.
“Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.”	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.
“By adopting the CMI for the same code of (15, 17), the upper bound shows the improvement of 0.5dB and the simulation results show the improvement of 0.3dB.”	By adopting the CMI for the same code of (15, 17), the upper bound shows improvement of 0.5 dB and the simulation results show improvement of 0.3 dB. (or) By adopting the CMI for the same code of (15, 17), the upper bound shows an improvement of 0.5 dB and the simulation results show an improvement of 0.3 dB.
“In the following, due to the space limitation, we mainly focus on the differences between the proposed algorithm and the original Wong-Liu algorithm.”	In the following, due to space limitations, we mainly focus on the differences between the proposed algorithm and the original Wong-Liu algorithm.
“Since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has smaller area, a lower parasitic capacitance is realized.”	A lower parasitic capacitance is realized since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has a smaller area.
“In the systems with only one microphone, extracting a speech form from a speech degraded by additive background noise requires the use of SS method.”	In the systems with only one microphone, extracting a speech sample from speech degraded by additive background noise requires the use of the SS method.

“Assuming that the background noise is represented as generated by exciting a linear system with a white noise, then we can reconstruct the background noise from the prediction error signal by estimating the transfer function of noise generation system.”	We can reconstruct the background noise, assuming that it is represented as being generated by exciting a linear system with a white noise, from the prediction error signal by estimating the transfer function of the noise generation system.
“BBS method can estimate the noise level without voice/voiceless section detector, at an expense of increase in computation load.”	The BBS method can estimate the noise level without a voice/voiceless section detector, at the expense of an increase in computation load.
“The result of the test is summarized in Table 1. From the result, we can see that the scores of the proposed method are higher than BBS method.”	The results of the test are summarized in Table 1. From the results, we can see that the scores of the proposed method are higher than the BBS method.
“3D filters are efficient for removing an additive noise…” “Therefore, to avoid the degradation…” “The Video-DDWA filter has a motion information as the …”	3D filters are efficient for removing additive noise… Therefore, to avoid degradation… The Video-DDWA filter has motion information as the …
“This paper describes a new approach to the digital watermarking of motion pictures… which intends to enhance the error detection ability. The conventional method lacks not only the detection ability but also the compatibility with vision decoders widely used today.”	This paper describes a new approach to the digital watermarking of motion pictures… enhances error detection ability. The conventional method lacks not only detection ability but also compatibility with vision decoders widely used today.
“In the encoder the check marker embedding can be a promising key technology of the error detection. The check marking is to embed… and hence it causes the picture quality degradation…”	In the encoder check marker embedding can be a promising key technology for error detection. check marking is to embed…and hence it causes picture quality degradation…
“This kind of binary sequences based on chaos orbits are called the chaotic binary sequence.”	These kinds of binary sequences, based on chaos orbits, are called *chaotic binary sequences*.

“In this section, we assume that every elements in diffusion layer belong to GF(2n).”	In this section, we assume that every element in the diffusion layer belongs to GF(2n). (or) In this section, we assume that all elements in the diffusion layer belong to GF(2n).
“Their older result shows that the decrease of estimated upper bound is saturated at 7 rounds. Their new result is much better for 4 to 10 rounds, and shows monotonic decrease for more than 7 rounds.”	Their earlier results show that the decrease of estimated upper bound is saturated at 7 rounds. Their recent results are much better for 4 to 10 rounds, and show a monotonic decrease for more than 7 rounds.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(16) Organize material logically by linking paragraphs (P)

Bad	Good
“Let T*i* (*i* = 1,2,…) be the actual time interval between the (*i*-1)st and the *i*-th checkpoints.”	Let us now consider the effect of actual time. Let T*i* ,(*i* = 1,2,…), be the actual time interval between the checkpoints (*i*-1)st and *i*-th.
“For simplicity, the number of neighboring connections of each node is four in Fig. 1, but we assume eight neighborhoods in this paper.”	For simplicity, the number of neighboring connections of each node is four in Fig. 1, but we assume eight neighborhoods in this paper (since *explanation*).
“Therefore, the LPF limits the performance range of frequency-offset compensation. We will later derive the valid range.”	Therefore, the LPF limits the performance range of frequency-offset compensation. We will thus seek to derive the valid range.
“How to reset is explained here.”	We now discuss the reset conditions in the PC scheme so that true position information is transmitted to the receiver.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(17) Begin a paragraph with a good topic sentence (P)

Bad	Good
"Nowadays, computer and communications are inevitably connected to each other."	Recently, computers and communications have become closely connected to one another.
"Let T*i* (*i* = 1,2,…) be the actual time interval between the (*i*-1)st and the *i*-th checkpoints."	Let us now consider the effect of actual time. Let T*i* ,(*i* = 1,2,…), be the actual time interval between the checkpoints (*i*-1)st and *i*-th.
"Fractal image coding was first proposed by Barnsley as a scheme of reducing data by exploiting image redundancy through self-similarity [1]."	In this paper, we investigate fractal image coding based on classified range regions. Fractal image coding was first proposed by Barnsley as a scheme of reducing data by exploiting image redundancy through self-similarity [1].
"Let *C* be an (*N*,*K*) binary linear block code and let *VN* be the set of the *N*-tuples over GF(2)."	In this paper, we present an algorithm to compute the weight distribution of coset leaders for a code with smaller memory, although the time complexity may be larger.
"This test chip consisted of 64 x 64 cells (CELL), two base generators…."	Our test chip consisted of 64 x 64 cells (CELL), two base generators….
"How to reset is explained here."	We now discuss the reset conditions in the PC scheme so that true position information is transmitted to the receiver.
"Recently, ITS [1], which aim at making safety, pleasant, and efficient transportation by solving traffic accidents, traffic jam, environmental pollution, and energy problems, have attracted the attention of the world."	Recently, Intelligent Transport Systems, ITS [1], which aim at making transportation safe, pleasant, and efficient by solving traffic accidents, traffic jams, energy shortages and environmental pollution, have attracted the attention of the world.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(18) Using facts and statistics in supporting statements (P)

Bad	Good
It is well known that the renewal process belongs to more wide class of stochastic processes….	It is well known (cf. [*12**], [*23**]) that the renewal process belongs to a wider class of stochastic processes…. [* *these are not actual references, but suggest where they should be included*]
"The *i*-th checkpoint is generated as soon as the total operation time since the (*i*-1)st checkpoint reaches the length Si(*i* = 1,2,…)."	The checkpoint, *i*-th, is generated as soon as the total operation time since the checkpoint, (*i*-1) st, reaches the length, Si(*i* = 1,2,…).
"Fractal image coding was first proposed by Barnsley as a scheme of reducing data by exploiting image redundancy through self-similarity [1]."	In this paper, we investigate fractal image coding based on classified range regions. Fractal image coding was first proposed by Barnsley as a scheme of reducing data by exploiting image redundancy through self-similarity [1].
"It is known that *R(G;p)* can be computed by enumerating…."	According to *Author [1*], R(G;p)* can be computed by enumerating….

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(20) Using opinions as supporting statements (P)

Bad	Good
"Our experimental protocol is *highly conservative*, we *don't feel it appropriate to use unknown and untested ideas* in the framework of a new encryption schema."	Our experimental protocol prevents us from using unknown and untested ideas in the framework of a new encryption schema. (or) Our experimental protocol requires us to use known and tested ideas in the framework of a new encryption schema.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(23) Making clear transitions within a paragraph (P)

Bad	Good
"The *i*-th checkpoint is generated as soon as the total operation time since the (*i*-1)st checkpoint reaches the length Si(*i* = 1,2,…)."	The checkpoint, *i*-th, is generated as soon as the total operation time since the checkpoint, (*i*-1) st, reaches the length, Si(*i* = 1,2,…).
"And vice versa for the case when the searched range is in the right of a node."	And vice versa for the case when the searched range is in the right of a node (i.e., the left sons are not included in the searched range, and thus are not visited).
"For simplicity, the number of neighboring connections of each node is four in Fig. 1, but we assume eight neighborhoods in this paper."	For simplicity, the number of neighboring connections of each node is four in Fig. 1, but we assume eight neighborhoods in this paper (since *explanation*).
"On the other hand, novel concepts for mobile communication have been considered. Ad-hoc networking [2] – [5] is one of the concepts."	On the other hand, novel concepts for mobile communication, such as Ad-hoc networking [2] – [5], have been considered.
"Therefore, the LPF limits the performance range of frequency-offset compensation. We will later derive the valid range."	Therefore, the LPF limits the performance range of frequency-offset compensation. We will thus seek to derive the valid range.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(24) Summarizing your points (P)

Bad	Good
“Finally, the paper is concluded with some remarks.”	Finally, in Section 5, we summarize our findings and suggest possible directions for future investigations.
“Therefore, we need further investigations.” “There still remain some further researches…”	Therefore, we need to conduct further research in this area. There still remains a need for further research…
“This paper deals with a study of a problem for finding the minimum-cost spanning tree with a response-time bound. The relations of cost and response-time is given as a monotonous decreasing and convex function…..where any response-time from a root vertex to other vertex is less than a given time bound….For the latter problem, different types of heuristic algorithms evaluate to find a near optimal solution experimentally.”	We investigated a method for determining the minimum-cost spanning tree with a fixed response-time limit. The relationship of cost and response-time is given as a [monotonous decreasing and convex function]…..where any response-time from a root vertex to other vertices is less than a given time limit….For the latter problem, we found a near optimal solution by experimentally evaluating different types of heuristic algorithms .
“Using the computation method, we have computed the weight distributions….”	Using the computation method, [*equation*], we have computed the weight distributions….
“It is our future problem to analyze DCA in more practical models. For example, to consider irregular cell structure is considered as one of the future problems.”	Good (1) In the future we plan to analyze DCA in more practical models. For one example, we hope to consider the problem of irregular cell structure. Good (2) In the future we plan to analyze DCA in more practical models. For one example, we hope to consider the problem of irregular cell structure. For the present, however, we hope our paper is

	of some small use for suggesting new ways for analyzing DCA methods.

1. PRINCIPLE OF COHESIVENESS

b. Use a Logical Order

(25) Emphasizing your points (P)

Bad	Good
“Therefore, we need further investigations.” “There still remain some further researches…”	Therefore, we need to conduct further research in this area. There still remains a need for further research…
“Using the computation method, we have computed the weight distributions….”	Using the computation method, [*equation*], we have computed the weight distributions….
“It is our future problem to analyze DCA in more practical models. For example, to consider irregular cell structure is considered as one of the future problems.”	Good (1) In the future we plan to analyze DCA in more practical models. For one example, we hope to consider the problem of irregular cell structure. Good (2) In the future we plan to analyze DCA in more practical models. For one example, we hope to consider the problem of irregular cell structure. For the present, however, we hope our paper is of some small use for suggesting new ways for analyzing DCA methods.

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(27) Avoid shifts in number (P)

Bad	Good
“Nowadays, computer and communications are inevitably connected to each other.”	Recently, computers and communications have become closely connected to one another.
“…the decreasing properties on the parameters above seems to be natural.”	…the decreasing properties on the parameters above seem natural.
“In Table 3, it is found that the optimal checkpoint interval increases except for the column of Ozbaykal approximations….”	In Table 3, the optimal checkpoint interval increases except for in the column of Ozbaykal approximations….
“Otherwise, that is to say, if the range region contains more than one primitive blocks, a 1-bit is assigned, and then, the following process is applied.”	Otherwise, if the range region contains two or more primitive blocks, a 1-bit is assigned, and then, the following process is applied.
“It has turned out so far that for some special orders, computing discrete logarithms over the elliptic-curve groups of those orders are no longer hard, or become easier than expected.”	For some special orders, computing discrete logarithms over the elliptic-curve groups of those orders is no longer difficult, or becomes easier than expected.
“In order to confirm the validity of the derived performance bound, the simulation of iterative decoding based on BCJR algorithm have been executed.”	In order to confirm the validity of the derived performance bound, a simulation of iterative decoding based on the BCJR algorithm was executed.
“Relabeling of transitions in the lower level nets if more than one transitions have the same label….”	Re-labelling of transitions in the lower level nets if more than one transition has the same label…
“Infinite-sort *PN2*’s can have infinitely many states, and has the same modeling power as Turing machines….”	Infinite-sort *PN2*’s can have infinitely many states, and have the same modelling power as Turing machines….

"…EOS do not allow to have infinitely many states."	…EOS does not allow infinitely many states. (or) …EOS does not allow an infinite number of states.
"In the following, due to the space limitation, we mainly focus on the differences between the proposed algorithm and the original Wong-Liu algorithm."	In the following, due to space limitations, we mainly focus on the differences between the proposed algorithm and the original Wong-Liu algorithm.
"For the remaining more than 3-terminal nets, the accuracy of routing cost estimation would be degraded compared to the case of 2- or 3-terminal nets."	For the remaining 4- (or more) terminal nets, the accuracy of routing cost estimation would be degraded compared to the case of 2- or 3-terminal nets.
"In the current implementation, for each stage, the start temperature and the end temperature are specified in advance."	In the current implementation, for each stage, the start temperatures and the end temperatures are specified in advance.
"From this result it can be seen that the improvement of 7.0dB in *SNR* has been obtained ."	Based on these results, an improvement of 7.0 dB in *SNR* has been obtained.
"This results mean that the carried traffic jump between n and $n + 1$ when n is an odd number."	These results represent the carried traffic jump between n and $n + 1$ when n is an odd number.
"This kind of binary sequences based on chaos orbits are called the chaotic binary sequence."	These kinds of binary sequences, based on chaos orbits, are called *chaotic binary sequences*.
"In this section, we assume that every elements in diffusion layer belong to GF($2n$)."	In this section, we assume that every element in the diffusion layer belongs to GF($2n$). (or) In this section, we assume that all elements in the diffusion layer belong to GF($2n$).
"We describe every transformations as follows."	We describe every transformation as follows. (or) We describe all transformations as follows.

“Their older result shows that the decrease of estimated upper bound is saturated at 7 rounds. Their new result is much better for 4 to 10 rounds, and shows monotonic decrease for more than 7 rounds.”	Their earlier results show that the decrease of estimated upper bound is saturated at 7 rounds. Their recent results are much better for 4 to 10 rounds, and show a monotonic decrease for more than 7 rounds.

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(28) Avoid shifts in voice (P)

Bad	Good
“The information theoretic measure has been shown to be useful to evaluate the performance of the attack as well as to show deviations in certain attacks are of no use to derive secret information.”	The information theoretic measure can be used to evaluate the performance of the attack as well as to show that deviations in certain attacks are of no use in deriving secret information.
“As for the trapdoor…once given a, trapdoor of s, one can compute s-1(y) efficiently. So he can also compute y efficiently.”	As for the trapdoor…once given a, trapdoor of s, one can compute s-1(*y*) efficiently. So one can also compute y efficiently.
“The following example shows how we can avoid to deal with the combinatorial number of transition bindings.”	The following example shows how we can avoid dealing with the combinatorial number of transition bindings.

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(29) Avoid shifts in tense (P)

Bad	Good
“The information theoretic measure has been shown to be useful to evaluate the performance of the attack as well as to show deviations in certain attacks are of no use to derive secret information.”	The information theoretic measure can be used to evaluate the performance of the attack as well as to show that deviations in certain attacks are of no use in deriving secret information.
“Thus, we concentrate our attention to solve the nonlinear equation….”	Thus, we concentrate our attention on solving the nonlinear equation….
“In [6], another merging scheme where merging was applied to surrounding blocks in a predetermined order was proposed. In these merging schemes, the restriction on the locations of range regions is removed. However, the variety of region shapes is still somewhat restricted.”	In [6], another merging scheme where merging was applied to surrounding blocks in a predetermined order was proposed. In these merging schemes, the restriction on the locations of range regions was removed. However, the variety of region shapes was still somewhat restricted.
“The range blocks are also able to be classified into several classes for encoding in different manners.”	The range blocks can be classified into several classes for encoding in different manners.
“It has turned out so far that for some special orders, computing discrete logarithms over the elliptic-curve groups of those orders are no longer hard, or become easier than expected.”	For some special orders, computing discrete logarithms over the elliptic-curve groups of those orders is no longer difficult, or becomes easier than expected.
“One of our future problems is fabricate this fully digitally programmable filter system with controlling the ….values.”	A problem for the future is to fabricate this fully digitally programmable filter system by controlling the ….values.

“There are several attempts to generate chaotic binary sequences by using one-dimensional maps.”	Recently, there have been several attempts to generate chaotic binary sequences by using one-dimensional maps.

1. PRINCIPLE OF COHESIVENESS

c. Be Consistent

(31) Keep references, labels, measurement units same (P)

Bad	Good
"On the other hand, if given the trapdoor for *f* (resp. *f*-1) it is hard to compute the trapdoor for *f*-1 (resp. *f*) respectively, these call such an *f* separated trapdoor no-way functions."	On the other hand, if given the trapdoor for *f* (in relation to *f*-1) it is hard to compute the trapdoor for *f*-1 (in relation to *f*), and vice versa. As a result these *f* separated trapdoors are called no-way functions. [Note: This cannot be repaired completely since it is impossible to tell what "resp." actually stands for—it cannot stand for "represent" or "respectively" due to contextual restrictions—My solution may not actually be the best way to handle this situation.]
"…EOS do not allow to have infinitely many states."	…EOS does not allow infinitely many states. (or) …EOS does not allow an infinite number of states.

1. PRINCIPLE OF COHESIVENESS

d. Avoid Distractions

(32) Avoid needless repetition of words (P)

Bad	Good
"By using this merging scheme, range blocks of various shapes as well as of various sizes, which are called range "regions" more appropriately rather than range "blocks", are able to be obtained."	By using this merging scheme, we can obtain range blocks of various sizes and shapes, called range "regions".
(from Summary) "Generating state spaces is one of important and general methods in the analysis of Petri nets." (from Introduction) "Generating state spaces is one of important and general methods in the analysis of Petri nets."	(from Summary/Introductory Statement) Generating state spaces is one of the most important and general methods in the analysis of Petri nets. (from Introduction/Introductory Statement) In this paper, we propose an efficient algorithm for exploring the state spaces of Petri nets with large capacities.
"We have also given a necessary and efficient condition for the open question to be solved affirmatively under the ERH. This leads to another open question that is equivalent (under ERH) to the original open question:…."	We have also given a necessary and efficient condition for the question to be solved affirmatively under the ERH. This leads to a nearly identical (under the ERH) question:….
"On the other hand, Once given the power of computing… On the other hand, if one can access the oracle of computing…."	On the other hand, once given the power of computing… Alternatively, if one can access the results of computing….
"The reference signal w(t) is given by piecewise constant components." "One is the reason that w(t) is given by piecewise constants."	The reference signal *w(t)* is given by separate constant components. One is the reason that *w(t)* is given by separate constants.

“This formula is derived by assuming the following: It is assumed that the service area consists of regular hexagonal cells and traffic intensity of each cell is the same. *p*-belt buffering systems are assumed and it is also assumed that each cell has the same number of interference cells. This assumption means that we can neglect the edge effect. Furthermore, it is assumed that terminals never move.”	Good (1) This formula is derived by assuming the following four conditions: i. The service area consists of regular hexagonal cells and traffic intensity of each cell is the same. ii. There are *p*-belt buffering systems. iii. Each cell has the same number of interference cells (edge effect can be neglected). iv. Terminals never move. Good (2) This formula is derived by assuming the following four conditions: (1) The service area consists of regular hexagonal cells and traffic intensity of each cell is the same; (2) There are *p*-belt buffering systems; (3) Each cell has the same number of interference cells (edge effect can be neglected); and (4) Terminals never move.
“In this paper, we assume that B*M* in the system considering no hand-off operations where offered traffic is a*n* is equivalent to B*M* in the system considering the mobility where offered traffic is *a*. In other words, we consider offered traffic considering the influence of the mobility. Similarly, we assume that *BH* in the system considering no hand-off operations where offered traffic is *ah* is equivalent to *BH* in the system considering the mobility where offered traffic is *a*.”	In this paper, we assume that *BM* in the system implementing no hand-off operations where offered traffic is *an* is equivalent to *BM* in the system recognizing the mobility where offered traffic is *a*. In other words, we determined that offered traffic involves the influence of the mobility. Similarly, we assume that *BH* in the system implementing no hand-off operations where offered traffic is *ah* is equivalent to *BH* in the system recognizing the mobility where offered traffic is *a*.
“Moreover, this filter can be programmed the filter type even after it is fabricated by changing the switch status pattern of the built-in switches.”	Moreover, the type of this filter can be programmed even after it is fabricated by changing the status pattern of the built-in switches.

“Wireless network systems introducing both of the cellular concept and the ad-hoc concept have been proposed [6], [7].”	Wireless network systems introducing both the cellular and the ad-hoc concepts have been proposed [6], [7].
“To develop ad-hoc networks, we must overcome a lot of problems. These problems include a lot of theoretical issues.”	To develop ad-hoc networks, we must overcome a large number of problems, many of which involve theoretical issues.
“Next, based on the above fact….” “To estimate the rate function for the above methods…” “However, because of the above mentioned differences…”	Next, based on this fact…. To estimate the rate function for the methods discussed in the previous section… However, because of the differences mentioned above…
“In this paper, to avoid weight transmission using side ….’ “This paper is organized as follows.” “Finally, the conclusion of this paper is given in Sect. 5.” “In this paper, we consider the PTS technique…” “In this section, we focus on methods of transmitting….” “In this paper, we set the pilot signals on edge…” “In this paper, we use p = 3, …” “In this paper, we compare the performance…” “In this subsection, the performance…” “…in this section, we can confirm…” “In this paper, we have proposed….”	To avoid weight transmission using side …. This paper is organized as follows. Finally, our conclusions are offered in Sect. 5. Next, we consider the PTS technique… In this section, we focus on methods of transmitting…. We set the pilot signals on edge… Throughout, we use $p = 3$, … We now compare the performance… Here, let us consider the performance… …we can thus confirm… Above, we have proposed….

2. PRINCIPLE OF DIRECTNESS

a. State what things are, not what they seem to be

(33) Use concrete terms (W)

Bad	Good
“Hence, new query vectors are not introduced here any more.”	Hence, new query vectors will no longer be considered.
“As technologies are scaled down, however, much accuracy is required and Rubinstein [3] has introduced a calculation model utilizing second order circuit moments.”	As technologies are scaled down, however, increased accuracy is required so Rubinstein [3] has introduced a calculation model utilizing second order circuit moments.
“This good feature enables to find critical paths in a very short execution time....”	This useful feature enables us to find critical paths in a very short execution time....
“From the other point of view, industrial view point, logic circuits in actual products should not contain so much logical redundancy to guarantee high testability of the circuits.”	From another point of view, the industrial view point, logic circuits in actual products should not contain a significant amount of logical redundancy in order to guarantee high testability of the circuits.
“PCHECK directly calculates signal wave forms to keep high accuracy of delay time.”	PCHECK directly calculates signal wave forms to maintain high accuracy of delay time.
It is well known that the renewal process belongs to more wide class of stochastic processes….	It is well known (cf. [*12**], [*23**]) that the renewal process belongs to a wider class of stochastic processes…. [* *these are not actual references, but suggest where they should be included*]
“Below we summarize in what points our results are interesting.”	Below we summarize the important aspects of our results.

“In fact, moderate-size networks used in testing randomized FPTAS in [16] can be analyzed by ours exactly. Here it should be noted that ours is an exponential algorithm, although its time complexity is mildly growing….”	In fact, moderate-size networks used in testing randomized FPTAS in [16] can be precisely analyzed by our algorithm. Here it should be noted that our algorithm is exponential, although its time complexity is slightly increasing….
“Summarizing the above arguments, when a structural network of at most 50 ~ 60 vertices and 150 ~ 180 edges is of practical interest to investigate, the problem is never hard to solve and can be handled within a practical time.”	Summarizing the above arguments, when a structural network of at most 50 ~ 60 vertices and 150 ~ 180 edges is worth investigating, the problem can be solved quickly and easily.
“…we have to test much more examples, in this regard, the following results are preliminary.”	…we have to test many more examples, so in this regard, the following results are preliminary.
“There are only a few researches for the second problem.”	To date there has been only a few investigations related to the second problem.
“Finally, the paper is concluded with some remarks.”	Finally, in Section 5, we summarize our findings and suggest possible directions for future investigations.
“Among them, MUSIC is most well-known for its super-resolution capability and simpleness.”	Among them, MUSIC is best known for its super-resolution capability and its simplicity.
“The point is that these are not polynomial-time algorithms, although the running time has been reduced by many clever ideas.”	The point is that these are not polynomial-time algorithms, although the running time has been reduced by many insightful ideas.
“Then there exists at least one computation path that has the following sequence:...”	Then there is at least one computation path that has the following sequence:…
“We have investigated the difficulty of the open question: Can we construct an elliptic curve of a given order in deterministic polynomial time?”	We have investigated the difficult question: Can we construct an elliptic curve of a given order in deterministic polynomial time?
“A one-way function is intuitively a function which is easy to compute but hard to invert.”	A one-way function is intuitively a function which is easy to compute but difficult to invert.

“On the other hand, Once given the power of computing… On the other hand, if one can access the oracle of computing….”	On the other hand, once given the power of computing… Alternatively, if one can access the results of computing….
“Moreover, the malicious subscribers might try to expose the secret decryption keys buried in their decryption boxes….”	Moreover, the unlicensed (illegitimate) subscribers might try to expose the secret decryption keys buried in their decryption boxes….
“…the noise model proposed by Middleton et al. is well known, and provides very good fits to a variety of noise with a determination method of noise parameters [8].”	“…the noise model proposed by Middleton et al. is well known, and is suitable for a variety of different types of noise with a determination method of noise parameters [8].
“*PN2*’s are sufficiently simple for the mathematical analysis, such as invariant analysis, but have enough modeling power.”	*PN2*’s are sufficiently simple for the mathematical analysis, such as invariant analysis, and have adequate modelling power.
“Therefore, no work has been done on the mathematical analysis.”	Therefore, no work has been performed on the mathematical analysis.
“As regards the complexity issue, the most time-consuming operation in the image enhancement algorithm by Peli and Lim is 2-D low-pass filtering.”	Regarding the complexity issue, the most time-consuming operation in the image enhancement algorithm by Peli and Lim is 2-D low-pass filtering.
“However, in practice, since it is considerably difficult to determine the PID parameters suitability, lots of researches have been reported with respect to tuning schemes of PID parameters.”	However, in practice, since it is extremely difficult to determine the PID parameters, a significant amount of research has been undertaken with respect to the tuning schemes of PID parameters.
“While (18) may sound strange because the right hand of (18) is a time function and the left hand is a constant, it is not.”	While (18) may appear (seem) strange because the right hand of (18) is a time function and the left hand is a constant, it is not.

“Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.”	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.
“Thus, the delay estimation with net decomposition produces a conservative, or pessimistic result.”	Thus, the delay estimation with net decomposition produces a conservative, or unsuitable, result.
“In order to improve this problem, we use the long time average value of the error signal *e(n)* for updating the coefficients….”	In order to solve this problem, we use the long time average value of the error signal *e(n)* for updating the coefficients….
“The degradation by the check markering is supposedly similar to them. Therefore, the so-called epsilon-filter is used to reduce the random noise of low amplitude.”	The degradation by the check markering is similar to them. Therefore, the epsilon-filter is used to reduce the random noise of low amplitude.
“Figure 7 shows another results computed for n – 31, where R = 100….”	Figure 7 shows additional results computed for n – 31, where R = 100….
“This results mean that the carried traffic jump between n and n + 1 when n is an odd number.”	These results represent the carried traffic jump between n and n + 1 when n is an odd number.
“Work on the problem has resulted in a flood of papers [1] – [4].”	Work on the problem has resulted in numerous papers [1] – [4].
“Rijndael is the most famous SPN-type cipher with a variable block length and a variable key length….”	Rijndael is the most widely known (common, recognized) SPN-type cipher with a variable block length and a variable key length….
“Their older result shows that the decrease of estimated upper bound is saturated at 7 rounds. Their new result is much better for 4 to 10 rounds, and shows monotonic decrease for more than 7 rounds.”	Their earlier results show that the decrease of estimated upper bound is saturated at 7 rounds. Their recent results are much better for 4 to 10 rounds, and show a monotonic decrease for more than 7 rounds.

2. PRINCIPLE OF DIRECTNESS

a. State what things are, not what they seem to be

(34) Avoid lexical ambiguity (W)

Bad	Good
“Hence, new query vectors are not introduced here any more.”	Hence, new query vectors will no longer be considered.
“As technologies are scaled down, however, much accuracy is required and Rubinstein [3] has introduced a calculation model utilizing second order circuit moments.”	As technologies are scaled down, however, increased accuracy is required so Rubinstein [3] has introduced a calculation model utilizing second order circuit moments.
“This good feature enables to find critical paths in a very short execution time....”	This useful feature enables us to find critical paths in a very short execution time....
“PCHECK directly calculates signal wave forms to keep high accuracy of delay time.”	PCHECK directly calculates signal wave forms to maintain high accuracy of delay time.
It is well known that the renewal process belongs to more wide class of stochastic processes….	It is well known (cf. [*12**], [*23**]) that the renewal process belongs to a wider class of stochastic processes…. [* *these are not actual references, but suggest where they should be included*]
“Below we summarize in what points our results are interesting.”	Below we summarize the important aspects of our results.
“In fact, moderate-size networks used in testing randomized FPTAS in [16] can be analyzed by ours exactly. Here it should be noted that ours is an exponential algorithm, although its time complexity is mildly growing….”	In fact, moderate-size networks used in testing randomized FPTAS in [16] can be precisely analyzed by our algorithm. Here it should be noted that our algorithm is exponential, although its time complexity is slightly increasing….
“In this regard, this may imply that a new measure may be necessary to evaluate the complexity network….”	In this regard, this suggests that a new measure is necessary to evaluate the complexity network….

“There are only a few researches for the second problem.”	To date there has been only a few investigations related to the second problem.
“Finally, the paper is concluded with some remarks.”	Finally, in Section 5, we summarize our findings and suggest possible directions for future investigations.
“Among them, MUSIC is most well-known for its super-resolution capability and simpleness.”	Among them, MUSIC is best known for its super-resolution capability and its simplicity.
“The point is that these are not polynomial-time algorithms, although the running time has been reduced by many clever ideas.”	The point is that these are not polynomial-time algorithms, although the running time has been reduced by many insightful ideas.
“We have investigated the difficulty of the open question: Can we construct an elliptic curve of a given order in deterministic polynomial time?”	We have investigated the difficult question: Can we construct an elliptic curve of a given order in deterministic polynomial time?
“A one-way function is intuitively a function which is easy to compute but hard to invert.”	A one-way function is intuitively a function which is easy to compute but difficult to invert.
“On the other hand, Once given the power of computing… On the other hand, if one can access the oracle of computing….”	On the other hand, once given the power of computing… Alternatively, if one can access the results of computing….
“Moreover, the malicious subscribers might try to expose the secret decryption keys buried in their decryption boxes….”	Moreover, the unlicensed (illegitimate) subscribers might try to expose the secret decryption keys buried in their decryption boxes….
“…the noise model proposed by Middleton et al. is well known, and provides very good fits to a variety of noise with a determination method of noise parameters [8].”	“…the noise model proposed by Middleton et al. is well known, and is suitable for a variety of different types of noise with a determination method of noise parameters [8].
“*PN2*’s are sufficiently simple for the mathematical analysis, such as invariant analysis, but have enough modeling power.”	*PN2*’s are sufficiently simple for the mathematical analysis, such as invariant analysis, and have adequate modelling power.
“Therefore, no work has been done on the mathematical analysis.”	Therefore, no work has been performed on the mathematical analysis.

“As regards the complexity issue, the most time-consuming operation in the image enhancement algorithm by Peli and Lim is 2-D low-pass filtering.”	Regarding the complexity issue, the most time-consuming operation in the image enhancement algorithm by Peli and Lim is 2-D low-pass filtering.
“However, in practice, since it is considerably difficult to determine the PID parameters suitability, lots of researches have been reported with respect to tuning schemes of PID parameters.”	However, in practice, since it is extremely difficult to determine the PID parameters, a significant amount of research has been undertaken with respect to the tuning schemes of PID parameters.
“While (18) may sound strange because the right hand of (18) is a time function and the left hand is a constant, it is not.”	While (18) may appear (seem) strange because the right hand of (18) is a time function and the left hand is a constant, it is not.
“Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.”	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.
“Thus, the delay estimation with net decomposition produces a conservative, or pessimistic result.”	Thus, the delay estimation with net decomposition produces a conservative, or unsuitable, result.
“In order to improve this problem, we use the long time average value of the error signal *e(n)* for updating the coefficients….”	In order to solve this problem, we use the long time average value of the error signal *e(n)* for updating the coefficients….
“It has been proven that the proposal noise reduction technique is available under the practical environment.”	We have proven that the proposed noise reduction technique is viable in the normal environment.
“The degradation by the check markering is supposedly similar to them. Therefore, the so-called epsilon-filter is used to reduce the random noise of low amplitude.”	The degradation by the check markering is similar to them. Therefore, the epsilon-filter is used to reduce the random noise of low amplitude.

“Figure 7 shows another results computed for *n* – 31, where *R* = 100….”	Figure 7 shows additional results computed for *n* – 31, where *R* = 100….
“This results mean that the carried traffic jump between *n* and *n* + 1 when *n* is an odd number.”	These results represent the carried traffic jump between *n* and *n* + 1 when *n* is an odd number.
“To develop ad-hoc networks, we must overcome a lot of problems. These problems include a lot of theoretical issues.”	To develop ad-hoc networks, we must overcome a large number of problems, many of which involve theoretical issues.
“There are several attempts to generate chaotic binary sequences by using one-dimensional maps.”	Recently, there have been several attempts to generate chaotic binary sequences by using one-dimensional maps.
“Next, based on the above fact….” “To estimate the rate function for the above methods…” “However, because of the above mentioned differences…”	Next, based on this fact…. To estimate the rate function for the methods discussed in the previous section… However, because of the differences mentioned above…
“Work on the problem has resulted in a flood of papers [1] – [4].”	Work on the problem has resulted in numerous papers [1] – [4].
“Rijndael is the most famous SPN-type cipher with a variable block length and a variable key length….”	Rijndael is the most widely known (common, recognized) SPN-type cipher with a variable block length and a variable key length….
“Their older result shows that the decrease of estimated upper bound is saturated at 7 rounds. Their new result is much better for 4 to 10 rounds, and shows monotonic decrease for more than 7 rounds.”	Their earlier results show that the decrease of estimated upper bound is saturated at 7 rounds. Their recent results are much better for 4 to 10 rounds, and show a monotonic decrease for more than 7 rounds.

2. PRINCIPLE OF DIRECTNESS

b. State the subject clearly

(35) Avoid indirect and unspecific subject/object (W)

Bad	Good
“This good feature enables to find critical paths in a very short execution time....”	This useful feature enables us to find critical paths in a very short execution time....

2. PRINCIPLE OF DIRECTNESS

a. State what things are, not what they seem to be

(37) Avoid syntactic ambiguity (S)

Bad	Good
“From the other point of view, industrial view point, logic circuits in actual products should not contain so much logical redundancy to guarantee high testability of the circuits.”	From another point of view, the industrial view point, logic circuits in actual products should not contain a significant amount of logical redundancy in order to guarantee high testability of the circuits.
“…it has comparable compression performance to the best known data compression utilities.”	it has compression performance comparable to the best known data compression utilities.
“An empirical evaluation shows that the proposed method has comparable compression performance to the best known data compression utilities.”	An empirical evaluation shows that the proposed method has compression performance comparable to the best known data compression utilities.
“First, sort the so far observed contexts, [*equation*] in order of...”	First, sort the contexts noted above, [*equation*] in order of....
“When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures such as the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.”	When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures. We should investigate the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.
“This paper deals with a similar stochastic database management model to Sumita, Kaio and Goes [11].…”	This paper deals with a stochastic database management model similar to Sumita, Kaio and Goes [11].…

"…the decreasing properties on the parameters above seems to be natural."	…the decreasing properties on the parameters above seem natural.
"By using this merging scheme, range blocks of various shapes as well as of various sizes, which are called range "regions" more appropriately rather than range "blocks", are able to be obtained."	By using this merging scheme, we can obtain range blocks of various sizes and shapes, called range "regions".
"Because the outline is to be closed, blocks situated in one-block wide structure are passed twice or more."	Because the outline is to be closed, blocks situated in a one-block wide structure are passed two or more times.
"Then, statistical techniques such as importance sampling and variance reduction should be applied to perform the system simulation effectively."	Then, statistical techniques such as importance sampling and variance reduction should be applied to effectively perform the system simulation.
"…the right sons are definitely not included in the searched range, therefore, the right sons are not needed to be visited."	…the right sons are definitely not included in the searched range, therefore, they do not need to be visited.
"This paper is concerned with the question which is open since 1986."	This paper is concerned with a question first raised in 1986.
"…if [*equation*], then [*equation*] has self-computable solutions obviously."	"…if [*equation*], then [*equation*] obviously has self-computable solutions.
"On the other hand, if given the trapdoor for *f* (resp. *f*-1) it is hard to compute the trapdoor for *f*-1 (resp. *f*) respectively, these call such an *f* separated trapdoor no-way functions."	Good(?) On the other hand, if given the trapdoor for *f* (in relation to *f*-1) it is hard to compute the trapdoor for *f*-1 (in relation to *f*), and vice versa. As a result these *f* separated trapdoors are called no-way functions. [Note: This cannot be repaired completely since it is impossible to tell what "resp." actually stands for—it cannot stand for "represent" or "respectively" due to contextual restrictions—My solution may not actually be the best way to handle this situation.]

“On the study of turbo codes over a practical channel by a Monte Carlo simulation, we should be forced to spend a lot of time on the simulation.”	We would likely be required to spend a significant amount of time in a Monte Carlo simulation studying turbo codes over a practical channel.
“…the noise model proposed by Middleton et al. is well known, and provides very good fits to a variety of noise with a determination method of noise parameters [8].”	“…the noise model proposed by Middleton et al. is well known, and is suitable for a variety of different types of noise with a determination method of noise parameters [8].
“As an empirical model which is developed to fit collected data a mixture model is commonly used.”	A mixture model is commonly used as an empirical model which is developed to fit collected data.
“The most important part of this construction is the transition from *pi* and *rn* to *ps* (Occurring of this transition are possible only when both nets in *pi*and *rn* are identical.”	The most important part of this construction is the transition from *pi* and *rn* to *ps* (this transition occurs only when both nets in *pi*and *rn* are identical).
“…EOS do not allow to have infinitely many states.”	…EOS does not allow infinitely many states. (or) …EOS does not allow an infinite number of states.
“The local contrast modification factor can be designed by the following four steps.”	The local contrast modification factor can be designed by following these four steps. (or) The local contrast modification factor recognizes the following four points.
“Therefore, to know the motion is exist or not in each *x (i, j, t)* is needed.”	Therefore, it is important to know whether or not motion exists in each *x (i, j, t)*.
“We have found all the four weights of coset leaders by only generating five pairs (…) without generating all the 16 pairs.”	We have found all four weights of the coset leaders by generating only five pairs (…) without generating all 16 pairs.
“It is important how to tune the control parameters in PID control laws….”	How to tune the control parameters is important in PID control laws. (or) Tuning the control parameters is important in PID control laws.

“Equation (7) means that every input error sequence with weight 2 prodeuces error event longer than *t* x *Fp* at one of the component encoder at least.”	Equation (7) means that every input error sequence with weight 2 produces error events longer than *t* x *Fp* at least at one of the component encoders.
“For the remaining more than 3-terminal nets, the accuracy of routing cost estimation would be degraded compared to the case of 2- or 3-terminal nets.”	For the remaining 4- (or more) terminal nets, the accuracy of routing cost estimation would be degraded compared to the case of 2- or 3-terminal nets.
“The output referred IP3 is higher 5.0 dB than the single balanced mixer.”	The output referred IP3 is 5.0 dB higher than the single balanced mixer.
“Since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has smaller area, a lower parasitic capacitance is realized.”	A lower parasitic capacitance is realized since the layer between the pad metal and the shield of the active area is thicker than that of the conventional metal shield type, and the meshed shield which causes parasitic capacitance of the pad has a smaller area.
“One of our future problems is fabricate this fully digitally programmable filter system with controlling the ….values.”	A problem for the future is to fabricate this fully digitally programmable filter system by controlling the ….values.
“Thereby, the approximation of Eq. (2) is not obtained with accuracy.”	Thereby, the approximation of Eq. (2) is not obtained accurately.
“It has been proven that the proposal noise reduction technique is available under the practical environment.”	We have proven that the proposed noise reduction technique is viable in the normal environment.
“1) Check marker embedding: A check marker is embedded into a macroblock… 2) Error Addition: One bit error with [an] error rate of…. 3) Error detection performance: We investigate how each condition… 4) PSNR calculation: To investigate the influence of the check marker embedding…”	Check marker embedding: Check marker embedded into a macroblock… 2) Error Addition: One bit error with [an] error rate of…. 3) Error detection performance: Conditions’ contributions to error detection. 4) PSNR calculation: Check marker influence on picture quality…

“This approach takes the size of a cell, the communication range, the traffic intensity in a cell, randomly distributed nodes, a call admission policy and behavior of traffic flows into account.”	This approach takes into account the size of a cell, the communication range, the traffic intensity in a cell, randomly distributed nodes, a call admission policy and behavior of traffic flows.
“To develop ad-hoc networks, we must overcome a lot of problems. These problems include a lot of theoretical issues.”	To develop ad-hoc networks, we must overcome a large number of problems, many of which involve theoretical issues.
“To study the large deviation principle for correlation functions of chaotic binary sequences is left to us as further research.”	We leave for future research the study of the large deviation principle for correlation functions of chaotic binary sequences.
“In this scenario, block cipher designers must prove the MDCP is enough small, as the security evaluation against differential cryptanalysis.”	In this scenario, block cipher designers must prove the MDCP is small enough, as a security evaluation against differential cryptanalysis.

2. PRINCIPLE OF DIRECTNESS

b. State the subject clearly

(38) Reduce adverbial and adjectival phrases (S)

Bad	Good
"…if [*equation*], then [*equation*] has self-computable solutions obviously."	"…if [*equation*], then [*equation*] obviously has self-computable solutions.
"Equation (7) means that every input error sequence with weight 2 prodeuces error event longer than *t* x *Fp* at one of the component encoder at least."	Equation (7) means that every input error sequence with weight 2 produces error events longer than *t* x *Fp* at least at one of the component encoders.
"The basic idea for estimating the routing cost for 3-terminal nets is the same as for 2-terminal nets. Only the difference between the two cases is the number of indexes of the table."	The basic idea for estimating the routing cost for 3-terminal nets is the same as for 2-terminal nets, where the only difference between the two cases is the number of indexes (indices) of the table.
"Only the difference in this case is the option calculation at the Steiner point."	The only difference in this case is the option calculation at the Steiner point.
"Next, based on the above fact…." "To estimate the rate function for the above methods…" "However, because of the above mentioned differences…"	Next, based on this fact…. To estimate the rate function for the methods discussed in the previous section… However, because of the differences mentioned above…

2. PRINCIPLE OF DIRECTNESS

b. State the subject clearly

(39) Using scope to avoid misplaced adverbs (S)

Bad	Good
“This paper deals with a similar stochastic database management model to Sumita, Kaio and Goes [11]….”	This paper deals with a stochastic database management model similar to Sumita, Kaio and Goes [11]….
“Then, statistical techniques such as importance sampling and variance reduction should be applied to perform the system simulation effectively.”	Then, statistical techniques such as importance sampling and variance reduction should be applied to effectively perform the system simulation.
“This approach takes the size of a cell, the communication range, the traffic intensity in a cell, randomly distributed nodes, a call admission policy and behavior of traffic flows into account.”	This approach takes into account the size of a cell, the communication range, the traffic intensity in a cell, randomly distributed nodes, a call admission policy and behavior of traffic flows.

2. PRINCIPLE OF DIRECTNESS

b. State the subject clearly

(40) Avoid subject ambiguity: Use correct pronouns (S)

Bad	Good
“The result agrees with the classical one by Young [1] when a = 1.”	The result agrees with Young [1] when a = 1.
“As for the trapdoor…once given a, trapdoor of s, one can compute s-1(y) efficiently. So he can also compute y efficiently.”	As for the trapdoor…once given a, trapdoor of s, one can compute s-1(*y*) efficiently. So one can also compute y efficiently.
“In practice it is often considered to be sufficient to prevent from analyzing a decoder by supplying subscribers with so-called secure hardware solutions, say smartcards.”	In practice, supplying subscribers with so-called secure hardware solutions, such as smartcards, is often sufficient to prevent (unlicensed users?) from analyzing a decoder.
“By using the following transition matrix [*equation*], and by extending to the combined trellis, their method can be applied for the Markovian impulsive noise channel.”	By using the following transition matrix [*equation*], and by extending it to the combined trellis, their method can be applied to the Markovian impulsive noise channel.
“This feature enables to represent mobile codes in a distributed environment.”	This feature enables us to represent mobile codes in a distributed environment.
“We omit the key addition before the first *s*-box layer, because which does not affect estimations of the probabilities discussed later.”	We omit the key addition before the first *s*-box layer, because it does not affect estimations of the probabilities discussed later.

2. PRINCIPLE OF DIRECTNESS

c. Avoid negatives whenever possible

(42) Avoid negative expressions and double negatives (S)

Bad	Good
“Range blocks of not only various sizes but also various shapes, which are called range “regions” more appropriately, are able to be obtained by using region segmentation techniques.”	Range blocks of various sizes and shapes, which are appropriately called range “regions”, can be obtained by using region segmentation techniques.
“In addition, there are no-way functions that are neither separated nor common trapdoor no-way, which can be called semi-separated.”	In addition, there are no-way functions that are not separated and do not share a common no-way trapdoor, which can be called semi-separated.
“We assume that there does not exist the minimum-cost tree of *H* whose root is u*0*.”	We assume that there is no minimum-cost tree of *H* whose root is u*0*.
“A behavior of the solution in E-transformation algorithm is determined only by not network properties but a given graph.”	The behavior of the solution in the E-transformation algorithm is determined by a given graph, not network properties.

2. PRINCIPLE OF DIRECTNESS

b. State the subject clearly

(46) Focus on the message: Place writer in background (P)

Bad	Good
“In fact, moderate-size networks used in testing randomized FPTAS in [16] can be analyzed by ours exactly. Here it should be noted that ours is an exponential algorithm, although its time complexity is mildly growing….”	In fact, moderate-size networks used in testing randomized FPTAS in [16] can be precisely analyzed by our algorithm. Here it should be noted that our algorithm is exponential, although its time complexity is slightly increasing….
“If we ignore the capacities, then the following markings are explored by the coverability-tree algorithm.”	If the capacities are ignored, then the following markings are explored by the coverability-tree algorithm.

3. PRINCIPLE OF ECONOMY

a. Brief is best

(50) Use words you know (W)

Bad	Good
“The result agrees with the classical one by Young [1] when a = 1.”	The result agrees with Young [1] when a = 1.

3. PRINCIPLE OF ECONOMY

b. Common words are preferred over uncommon words

(51) Use common instead of uncommon words (W)

Bad	Good
“To our best knowledge, this is the first paper that gives a circumstantial evidence suggesting that the open operation could be solved affirmatively.”	We believe that this is the first documented circumstantial evidence suggesting that the open operation could be solved affirmatively.
“Then there exists at least one computation path that has the following sequence:...”	Then there is at least one computation path that has the following sequence:…
“Thus, the proposed procedure only maintains the irredundant set of options, and in the end of the procedure *bottom.up(i)*, redundant options are pruned.”	Thus, the proposed procedure only maintains the non-redundant set of options, and in the end of the procedure *bottom.up(i)*, redundant options are pruned.

3. PRINCIPLE OF ECONOMY

b. Common words are preferred over uncommon words

(52) Define/Gloss new expressions (W)

Bad	Good
“Finally, conclusions are noted in Sect. 5.”	Finally, conclusions are noted in Section 5.”

3. PRINCIPLE OF ECONOMY

a. Brief is best

(54) Restrict length of sentences (S)

Bad	Good
“When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures such as the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.”	When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures. We should investigate the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.
“Thus this paper devises an error detection on the basis of the third way, which is more effective than that of the conventional method, and moreover the proposed approach is compatible with the conventional decoder.”	Thus this paper introduces an error detection on the basis of the third way (detecting syntactic and semantic video coding violations), which is compatible with, yet more effective than, that of the conventional method.
“Namely, we will represent the maximum delay $d(v,0)$ ($d(v,1)$) spent for transmitting logic value 0 (1) from a primary input to terminal v by the longest path length $d(v0)$ ($d(v1)$ from a source to 0-vertex (1-vertex) of terminal v, where the longest path length $d(x)$ from a source to vertex x is the maximum sum of weights of edges on a path from a source to x.”	Namely, we will represent the maximum delay $d(v,0)$ ($d(v,1)$) spent for transmitting logic value 0 (1). The logic value 0 (1) is derived from a primary input to terminal v by the longest path length $d(v0)$ ($d(v1)$ from a source to 0-vertex (1-vertex) of terminal v. The longest path length $d(x)$ from a source to vertex x is the maximum sum of weights of edges on a path from a source to x.

“Reject the call if some cliques already have the same number of calls as *nd*, respectively. Accept the calls in other cases.” “Reject the call if some maximum cliques have the same number of calls as *nd*, respectively. Accept the calls in other cases.”	Reject the call if some cliques already have the same number of calls as *nd*. Accept the calls otherwise. Reject the call if some maximum cliques have the same number of calls as *nd*. Accept the calls otherwise.

3. PRINCIPLE OF ECONOMY

a. Brief is best

(55) Keep sentences separate in ambiguous situations (S)

Bad	Good
A tri-set over a non-empty set NES is a function T: NESa IN, i.e., for each *nes* < NES, T (*nes*) denotes the number of occurrences of *nes* in T […].	In the following figure, we have a tri-set (T) over a non-empty set (NES), where there are repeated occurrences of NES, represented as *nes*. The number of occurrences of *nes* is denoted by the formula of T times *nes*. Please note the following. (1) T: NES a IN (where *nes* < NES; T (*nes*) = #T/NES)

3. PRINCIPLE OF ECONOMY

a. Brief is best

(56) Avoid restatement and redundancy (S)

Bad	Good
"The function *h(x)* is called *switching function* in this paper and satisfies the following relationship;…."	The function *h(x)* is called a *switching function* and satisfies the following relationship;….
"By using this merging scheme, range blocks of various shapes as well as of various sizes, which are called range "regions" more appropriately rather than range "blocks", are able to be obtained."	By using this merging scheme, we can obtain range blocks of various sizes and shapes, called range "regions".
(from Summary) "Generating state spaces is one of important and general methods in the analysis of Petri nets." (from Introduction) "Generating state spaces is one of important and general methods in the analysis of Petri nets."	(from Summary/Introductory Statement) Generating state spaces is one of the most important and general methods in the analysis of Petri nets. (from Introduction/Introductory Statement) In this paper, we propose an efficient algorithm for exploring the state spaces of Petri nets with large capacities.
"To conveniently execute the above-mentioned calculation, Viterbi et al. have already proposed the method using a state transition matrix of the component code [12]."	To conveniently execute the above-mentioned calculation, Viterbi et al. proposed using a state transition matrix of the component code [12].
"In [7],[8], an approximate technique using Clique Packing approximation has been proposed. Clique acking approximation, which is based on the concept of Clique Packing [6], is one of the approximations."	[7] and [8], proposed an approximate technique using Clique Packing approximation, based on [6].

“To develop ad-hoc networks, we must overcome a lot of problems. These problems include a lot of theoretical issues.”	To develop ad-hoc networks, we must overcome a large number of problems, many of which involve theoretical issues.
“In this paper, to avoid weight transmission using side ….’ “This paper is organized as follows.” “Finally, the conclusion of this paper is given in Sect. 5.” “In this paper, we consider the PTS technique…” “In this section, we focus on methods of transmitting….” “In this paper, we set the pilot signals on edge…” “In this paper, we use p = 3, …” “In this paper, we compare the performance…” “In this subsection, the performance…” “…in this section, we can confirm…” “In this paper, we have proposed….”	To avoid weight transmission using side …. This paper is organized as follows. Finally, our conclusions are offered in Sect. 5. Next, we consider the PTS technique… In this section, we focus on methods of transmitting…. We set the pilot signals on edge… Throughout, we use $p = 3$, … We now compare the performance… Here, let us consider the performance… …we can thus confirm… Above, we have proposed….

3. PRINCIPLE OF ECONOMY

a. Brief is best

(57) Avoid wordiness (S)

Bad	Good
“First, sort the so far observed contexts, [*equation*] in order of...”	First, sort the contexts noted above, [*equation*] in order of....
“The result agrees with the classical one by Young [1] when a = 1.”	The result agrees with Young [1] when a = 1.
“Range blocks of not only various sizes but also various shapes, which are called range “regions” more appropriately, are able to be obtained by using region segmentation techniques.”	Range blocks of various sizes and shapes, which are appropriately called range “regions”, can be obtained by using region segmentation techniques.
“Otherwise, that is to say, if the range region contains more than one primitive blocks, a 1-bit is assigned, and then, the following process is applied.”	Otherwise, if the range region contains two or more primitive blocks, a 1-bit is assigned, and then, the following process is applied.
“Below we summarize in what points our results are interesting.”	Below we summarize the important aspects of our results.
“Summarizing the above arguments, when a structural network of at most 50 ~ 60 vertices and 150 ~ 180 edges is of practical interest to investigate, the problem is never hard to solve and can be handled within a practical time.”	Summarizing the above arguments, when a structural network of at most 50 ~ 60 vertices and 150 ~ 180 edges is worth investigating, the problem can be solved quickly and easily.
“It has turned out so far that for some special orders, computing discrete logarithms over the elliptic-curve groups of those orders are no longer hard, or become easier than expected.”	For some special orders, computing discrete logarithms over the elliptic-curve groups of those orders is no longer difficult, or becomes easier than expected.

“To summarize above a deterministic polynomial-time algorithm for computing the order itself is known to exist….”	To summarize, a deterministic polynomial-time algorithm for computing the order itself is known to exist…..
“To our best knowledge, this is the first paper that gives a circumstantial evidence suggesting that the open operation could be solved affirmatively.”	We believe that this is the first documented circumstantial evidence suggesting that the open operation could be solved affirmatively.
“We have investigated the difficulty of the open question: Can we construct an elliptic curve of a given order in deterministic polynomial time?”	We have investigated the difficult question: Can we construct an elliptic curve of a given order in deterministic polynomial time?
“We have also given a necessary and efficient condition for the open question to be solved affirmatively under the ERH. This leads to another open question that is equivalent (under ERH) to the original open question:….”	We have also given a necessary and efficient condition for the question to be solved affirmatively under the ERH. This leads to a nearly identical (under the ERH) question:….
“In practice it is often considered to be sufficient to prevent from analyzing a decoder by supplying subscribers with so-called secure hardware solutions, say smartcards.”	In practice, supplying subscribers with so-called secure hardware solutions, such as smartcards, is often sufficient to prevent (unlicensed users?) from analyzing a decoder.
“Summarizing the above, our scheme is more efficient that the previous [schemes]….”	Summarizing, our scheme is more efficient that the previous [schemes]…..
“On the study of turbo codes over a practical channel by a Monte Carlo simulation, we should be forced to spend a lot of time on the simulation.”	We would likely be required to spend a significant amount of time in a Monte Carlo simulation studying turbo codes over a practical channel.
“To conveniently execute the above-mentioned calculation, Viterbi et al. have already proposed the method using a state transition matrix of the component code [12].”	To conveniently execute the above-mentioned calculation, Viterbi et al. proposed using a state transition matrix of the component code [12].

“Thus this paper devises an error detection on the basis of the third way, which is more effective than that of the conventional method, and moreover the proposed approach is compatible with the conventional decoder.”	Thus this paper introduces an error detection on the basis of the third way (detecting syntactic and semantic video coding violations), which is compatible with, yet more effective than, that of the conventional method.
“Especially, histogram modification is the method where the gray scale transformation is designed to realize the desirable intensity histogram.”	Especially, histogram modification involves designing the gray scale transformation to realize the desirable intensity histogram.
“As regards the complexity issue, the most time-consuming operation in the image enhancement algorithm by Peli and Lim is 2-D low-pass filtering.”	Regarding the complexity issue, the most time-consuming operation in the image enhancement algorithm by Peli and Lim is 2-D low-pass filtering.
“We assume that there does not exist the minimum-cost tree of *H* whose root is u*0*.”	We assume that there is no minimum-cost tree of *H* whose root is u*0*.
“By replacing steps A4) to A8) in Fig. 3 by B1) to B15) in Fig. 5, we obtain the entire improved algorithm.”	By replacing steps A4) to A8) in Fig. 3 by B1) to B15) in Fig. 5, we obtain the improved algorithm.
“Reject the call if some cliques already have the same number of calls as *nd*, respectively. Accept the calls in other cases.” “Reject the call if some maximum cliques have the same number of calls as *nd*, respectively. Accept the calls in other cases.”	Reject the call if some cliques already have the same number of calls as *nd*. Accept the calls otherwise. Reject the call if some maximum cliques have the same number of calls as *nd*. Accept the calls otherwise.
“Therefore, the proposed filter is expected to be altered with a microcomputer and so on.”	Therefore, the proposed filter can be altered by devices such as a microcomputer.
“It is noted that this lossless integrator can be only used in a feedback loop due to proper bias setting.”	This lossless integrator can only be used in a feedback loop due to proper bias setting.
“Moreover, this filter can be programmed the filter type even after it is fabricated by changing the switch status pattern of the built-in switches.”	Moreover, the type of this filter can be programmed even after it is fabricated by changing the status pattern of the built-in switches.

“It is confirmed that according to changes in the switch status pattern as shown in Table 2, the proposed universal biquad filter can certainly realize all filter types of a 2nd order function.” “Therefore it is confirmed that the cutoff (center) frequency of the proposed filter is easily timed by the bias current.”	The proposed universal biquad filter can realize all filter types of a 2nd order function according to changes in the switch status pattern, as shown in Table 2. We confirmed that the cutoff (center) frequency of the proposed filter is easily timed by the bias current.
“From this result it can be seen that the improvement of 7.0dB in *SNR* has been obtained .”	Based on these results, an improvement of 7.0 dB in *SNR* has been obtained.
“As a result, this concept has been applied to most of all land mobile communication networks.”	As a result, this concept has been applied to most mobile communication networks.
“In [6], it is described that introducing the ad-hoc concept to cellular systems is effective on efficient usage of frequency bands as follows.”	Introducing the ad-hoc concept to cellular systems is effective for efficient usage of frequency bands [6], as follows.

3. PRINCIPLE OF ECONOMY

a. Brief is best

(58) Use mainly nouns and verbs (S)

Bad	Good
“Suppose that the switching function *h(x)* is strictly increasing.”	Suppose that the switching function *h(x)* is increasing. (or) · Suppose that the switching function h(x) is always increasing

3. PRINCIPLE OF ECONOMY

a. Brief is best

(59) Avoid overuse and misuse of adjectives (S)

Bad	Good
"…it has comparable compression performance to the best known data compression utilities."	it has compression performance comparable to the best known data compression utilities.
"An empirical evaluation shows that the proposed method has comparable compression performance to the best known data compression utilities."	An empirical evaluation shows that the proposed method has compression performance comparable to the best known data compression utilities.
"The basic idea for estimating the routing cost for 3-terminal nets is the same as for 2-terminal nets. Only the difference between the two cases is the number of indexes of the table."	The basic idea for estimating the routing cost for 3-terminal nets is the same as for 2-terminal nets, where the only difference between the two cases is the number of indexes (indices) of the table.
"Only the difference in this case is the option calculation at the Steiner point."	The only difference in this case is the option calculation at the Steiner point.
"The output referred IP3 is higher 5.0 dB than the single balanced mixer."	The output referred IP3 is 5.0 dB higher than the single balanced mixer.
"On the other hand, when they belong to neighboring different coherent regions, they fire synchronously…."	On the other hand, when they belong to different coherent neighboring regions, they fire synchronously….

3. PRINCIPLE OF ECONOMY

a. Brief is best

(60) Avoid overuse and misuse of adverbs (S)

Bad	Good
“Suppose that the switching function *h(x)* is strictly increasing.”	Suppose that the switching function *h(x)* is increasing. (or) · Suppose that the switching function h(x) is always increasing
“The quad-tree partitioning scheme is one scheme of handling blocks of various sizes efficiently.”	The quad-tree partitioning scheme is one scheme of efficiently handling blocks of various sizes.
“Then, statistical techniques such as importance sampling and variance reduction should be applied to perform the system simulation effectively.”	Then, statistical techniques such as importance sampling and variance reduction should be applied to effectively perform the system simulation.

3. PRINCIPLE OF ECONOMY

c. Avoid subordinate clauses

(62) Subordinate conjunctions (who, which & that) (S)

Bad	Good
"From the renewal argument, it is sufficient to consider the system behaviour for one cycle and we drop the discrete time index *i* (*i* = 1,2,…) in the following discussion."	From the renewal argument, it is sufficient to consider the system behavior for one cycle so we omit the discrete time index *i* (*i* = 1,2,…) in the following discussion.
"And vice versa for the case when the searched range is in the right of a node."	And vice versa for the case when the searched range is in the right of a node (i.e., the left sons are not included in the searched range, and thus are not visited).
"*PN2*'s are sufficiently simple for the mathematical analysis, such as invariant analysis, but have enough modeling power."	*PN2*'s are sufficiently simple for the mathematical analysis, such as invariant analysis, and have adequate modelling power.
"…the location of an error in the bitstream that the decoder detects can not be the one that the error has actually occurred."	…the location of an error in the bitstream that the decoder detects can not be where the error has actually occurred.
"Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel."	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.

3. PRINCIPLE OF ECONOMY

c. Avoid subordinate clauses

(63) Using when and while as conjunctions (S)

Bad	Good
"[…] the location of an error in the bitstream that the decoder detects can not be *the one that* the error has actually occurred."	[…] the location of an error in the bitstream that the decoder detects can not be *where* the error has actually occurred.

3. PRINCIPLE OF ECONOMY

d. Discuss one point per statement

(64) Avoid run-on sentences (S)

Bad	Good
“Namely, we will represent the maximum delay *d*(*v*,0) (*d*(*v*,1)) spent for transmitting logic value 0 (1) from a primary input to terminal *v* by the longest path length *d*(*v*0) (*d*(*v*1) from a source to 0-vertex (1-vertex) of terminal *v*, where the longest path length *d*(x) from a source to vertex *x* is the maximum sum of weights of edges on a path from a source to *x*.”	Namely, we will represent the maximum delay *d* (*v*,0) (*d*(*v*,1)) spent for transmitting logic value 0 (1). The logic value 0 (1) is derived from a primary input to terminal *v* by the longest path length *d*(*v*0) (*d*(*v*1) from a source to 0-vertex (1-vertex) of terminal *v*. The longest path length *d* (*x*) from a source to vertex *x* is the maximum sum of weights of edges on a path from a source to *x*.

3. PRINCIPLE OF ECONOMY

d. Discuss one point per statement

(65) Avoid unrelated ideas in the same sentence (S)

Bad	Good
A tri-set over a non-empty set NES is a function T: NESa IN, i.e., for each *nes* < NES, T (*nes*) denotes the number of occurrences of *nes* in T […].	In the following figure, we have a tri-set (T) over a non-empty set (NES), where there are repeated occurrences of NES, represented as *nes*. The number of occurrences of *nes* is denoted by the formula of T times *nes*. Please note the following. (1) T: NES a IN (where *nes* < NES; T (*nes*) = #T/NES)

3. PRINCIPLE OF ECONOMY

a. Brief is best

(66) Underwrite, rather than overwrite (P)

Bad	Good
“When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures such as the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.”	When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures. We should investigate the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.
“Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.”	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.

3. PRINCIPLE OF ECONOMY

a. Brief is best

(67) Be brief and concise: Break writing up (P)

Bad	Good
“When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures such as the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.”	When the failure mechanism for the database management under uncertainty is examined, we should image more serious situations on failures. We should investigate the increasing failure rate circumstance or catastrophic failure from the standpoint of the fault-tolerant, and should model the database system under more complex and general situations in terms of system failure.
“Namely, we will represent the maximum delay $d(v,0)$ ($d(v,1)$) spent for transmitting logic value 0 (1) from a primary input to terminal v by the longest path length $d(v0)$ ($d(v1)$ from a source to 0-vertex (1-vertex) of terminal v, where the longest path length $d(x)$ from a source to vertex x is the maximum sum of weights of edges on a path from a source to x.”	Namely, we will represent the maximum delay $d(v,0)$ ($d(v,1)$) spent for transmitting logic value 0 (1). The logic value 0 (1) is derived from a primary input to terminal v by the longest path length $d(v0)$ ($d(v1)$ from a source to 0-vertex (1-vertex) of terminal v. The longest path length $d(x)$ from a source to vertex x is the maximum sum of weights of edges on a path from a source to x.
“Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.”	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.

3. PRINCIPLE OF ECONOMY

d. Discuss one point per statement

(68) Develop your discussion one step at a time (P)

Bad	Good
“The *i*-th checkpoint is generated as soon as the total operation time since the (*i*-1)st checkpoint reaches the length Si(*i* = 1,2,…).”	The checkpoint, *i*-th, is generated as soon as the total operation time since the checkpoint, (*i*-1) st, reaches the length, Si(*i* = 1,2,…).

4. PRINCIPLE OF APPROPRIATENESS

a. Be truthful and show politeness and respect for others

(70) Use neutral words (W)

Bad	Good
"Our experimental protocol is *highly conservative*, we *don't feel it appropriate to use unknown and untested ideas* in the framework of a new encryption schema."	Our experimental protocol prevents us from using unknown and untested ideas in the framework of a new encryption schema. (or) Our experimental protocol requires us to use known and tested ideas in the framework of a new encryption schema.

4. PRINCIPLE OF APPROPRIATENESS

b. Avoid idioms and slang, especially the more obscure regional variations

(71) Avoid colloquialism, clichés & slang (W)

Bad	Good
“The point is that these are not polynomial-time algorithms, although the running time has been reduced by many clever ideas.”	The point is that these are not polynomial-time algorithms, although the running time has been reduced by many insightful ideas.
“In practice it is often considered to be sufficient to prevent from analyzing a decoder by supplying subscribers with so-called secure hardware solutions, say smartcards.”	In practice, supplying subscribers with so-called secure hardware solutions, such as smartcards, is often sufficient to prevent (unlicensed users?) from analyzing a decoder.
“However, in practice, since it is considerably difficult to determine the PID parameters suitability, lots of researches have been reported with respect to tuning schemes of PID parameters.”	However, in practice, since it is extremely difficult to determine the PID parameters, a significant amount of research has been undertaken with respect to the tuning schemes of PID parameters.
“Therefore, the proposed filter is expected to be altered with a microcomputer and so on.”	Therefore, the proposed filter can be altered by devices such as a microcomputer.
“Work on the problem has resulted in a flood of papers [1] – [4].”	Work on the problem has resulted in numerous papers [1] – [4].

4. PRINCIPLE OF APPROPRIATENESS

c. Avoid contractions and casual speech rules

(72) Avoid uncommon contractions (W)

Bad	Good
“The distribution shown in the figure can be classified to 3 categories. Category 1: this category mainly includes long routes. Category 2: the routes in this category are so simple that little time is needed. Category 3: This category includes the routes on really difficult patterns.”	The distribution shown in the figure can be divided into 3 categories: (1) those that mainly include long routes; (2) those that are so simple that little time is needed, and; (3) those that are routes on really difficult patterns.
“This model may neglect many aspects of probabilistic link failures (say, burst, error caused by correlation), and yet it is really simple and captures some important aspects of reliability.”	This model may neglect many aspects of probabilistic link failures (for example, burst error caused by correlation), and yet it is both simple and robust, capturing some important aspects of reliability.
“The point is that these are not polynomial-time algorithms, although the running time has been reduced by many clever ideas.”	The point is that these are not polynomial-time algorithms, although the running time has been reduced by many insightful ideas.
“In practice it is often considered to be sufficient to prevent from analyzing a decoder by supplying subscribers with so-called secure hardware solutions, say smartcards.”	In practice, supplying subscribers with so-called secure hardware solutions, such as smartcards, is often sufficient to prevent (unlicensed users?) from analyzing a decoder.
“However, in practice, since it is considerably difficult to determine the PID parameters suitability, lots of researches have been reported with respect to tuning schemes of PID parameters.”	However, in practice, since it is extremely difficult to determine the PID parameters, a significant amount of research has been undertaken with respect to the tuning schemes of PID parameters.
“First, let’s consider the simple case, that is, the case of 2-terminal nets.”	First, let us consider the simple case, that is, the case of 2-terminal nets.

“Therefore, the proposed filter is expected to be altered with a microcomputer and so on.”	Therefore, the proposed filter can be altered by devices such as a microcomputer.
“Work on the problem has resulted in a flood of papers [1] - [4].”	Work on the problem has resulted in numerous papers [1] - [4].

4. PRINCIPLE OF APPROPRIATENESS

d. Use grammatically correct sentences

(76) Keep tense and number in agreement (S)

Bad	Good
“Nowadays, computer and communications are inevitably connected to each other.”	Recently, computers and communications have become closely connected to one another.
“Define [*S*] be the number of contexts in *S*.”	Define [*S*] to be the number of contexts in *S*. (or) · Define that [S] be the number of contexts in S.
“Thus, we concentrate our attention to solve the nonlinear equation….”	Thus, we concentrate our attention on solving the nonlinear equation….
“…the decreasing properties on the parameters above seems to be natural.”	…the decreasing properties on the parameters above seem natural.
“The range blocks are also able to be classified into several classes for encoding in different manners.”	The range blocks can be classified into several classes for encoding in different manners.
“Moreover, for each path edges consist of deleted loops correspond to the externally active edges for the corresponding spanning tree.”	Moreover, for each path, edges consist of deleted loops corresponding to the externally active edges for the corresponding spanning tree.
“It has turned out so far that for some special orders, computing discrete logarithms over the elliptic-curve groups of those orders are no longer hard, or become easier than expected.”	For some special orders, computing discrete logarithms over the elliptic-curve groups of those orders is no longer difficult, or becomes easier than expected.
“This paper is concerned with the question which is open since 1986.”	This paper is concerned with a question first raised in 1986.
“In order to confirm the validity of the derived performance bound, the simulation of iterative decoding based on BCJR algorithm have been executed.”	In order to confirm the validity of the derived performance bound, a simulation of iterative decoding based on the BCJR algorithm was executed.

“Relabeling of transitions in the lower level nets if more than one transitions have the same label….”	Re-labelling of transitions in the lower level nets if more than one transition has the same label…
“The following example shows how we can avoid to deal with the combinatorial number of transition bindings.”	The following example shows how we can avoid dealing with the combinatorial number of transition bindings.
“Infinite-sort *PN2*’s can have infinitely many states, and has the same modeling power as Turing machines….”	Infinite-sort *PN2*’s can have infinitely many states, and have the same modelling power as Turing machines….
“If there is only one or less Y block that has the DCT coefficients in a macroblock, the check marker is not embedded into the macroblock.”	If there is just one Y block that has the DCT coefficients in a macroblock, or none at all, the check marker is not embedded into the macroblock.
“In the following, due to the space limitation, we mainly focus on the differences between the proposed algorithm and the original Wong-Liu algorithm.”	In the following, due to space limitations, we mainly focus on the differences between the proposed algorithm and the original Wong-Liu algorithm.
“For the remaining more than 3-terminal nets, the accuracy of routing cost estimation would be degraded compared to the case of 2- or 3-terminal nets.”	For the remaining 4- (or more) terminal nets, the accuracy of routing cost estimation would be degraded compared to the case of 2- or 3-terminal nets.
“In the current implementation, for each stage, the start temperature and the end temperature are specified in advance.”	In the current implementation, for each stage, the start temperatures and the end temperatures are specified in advance.
“Flexible segmentation of complicated natural scene images is achieved by using resistive-fuse networks, and each segmented regions is extracted by nonlinear oscillator networks.”	Flexible segmentation of complicated natural scene images is achieved by using resistive-fuse networks, and each segmented region is extracted by nonlinear oscillator networks.
“Another effect by using the small step size for adaptation is illustrated in Fig. 3(a) and (b).”	Another effect caused by using the small step size for adaptation is illustrated in Fig. 3(a) and (b).

“The result of the test is summarized in Table 1. From the result, we can see that the scores of the proposed method are higher than BBS method.”	The results of the test are summarized in Table 1. From the results, we can see that the scores of the proposed method are higher than the BBS method.
“There are several attempts to generate chaotic binary sequences by using one-dimensional maps.”	Recently, there have been several attempts to generate chaotic binary sequences by using one-dimensional maps.
“This kind of binary sequences based on chaos orbits are called the chaotic binary sequence.”	These kinds of binary sequences, based on chaos orbits, are called *chaotic binary sequences*.
“In this section, we assume that every elements in diffusion layer belong to GF(2*n*).”	In this section, we assume that every element in the diffusion layer belongs to GF(2*n*). (or) In this section, we assume that all elements in the diffusion layer belong to GF(2*n*).
“We describe every transformations as follows.”	We describe every transformation as follows. (or) We describe all transformations as follows.
“Their older result shows that the decrease of estimated upper bound is saturated at 7 rounds. Their new result is much better for 4 to 10 rounds, and shows monotonic decrease for more than 7 rounds.”	Their earlier results show that the decrease of estimated upper bound is saturated at 7 rounds. Their recent results are much better for 4 to 10 rounds, and show a monotonic decrease for more than 7 rounds.

4. PRINCIPLE OF APPROPRIATENESS

d. Use grammatically correct sentences

(77) Choosing prepositions (S)

Bad	Good
“The distribution shown in the figure can be classified to 3 categories. Category 1: this category mainly includes long routes. Category 2: the routes in this category are so simple that little time is needed. Category 3: This category includes the routes on really difficult patterns.”	The distribution shown in the figure can be divided into 3 categories: (1) those that mainly include long routes; (2) those that are so simple that little time is needed, and; (3) those that are routes on really difficult patterns.
“In Table 3, it is found that the optimal checkpoint interval increases except for the column of Ozbaykal approximations….”	In Table 3, the optimal checkpoint interval increases except for in the column of Ozbaykal approximations….
“…the information on the main memory since the last checkpoint is back-uped in a secondary medium.”	…the information in the main memory since the last checkpoint is backed up in a secondary medium.
“By using the following transition matrix [*equation*], and by extending to the combined trellis, their method can be applied for the Markovian impulsive noise channel.”	By using the following transition matrix [*equation*], and by extending it to the combined trellis, their method can be applied to the Markovian impulsive noise channel.
“Equation (1) is reformulated not only using the Euclidian distance and but also by using the weight of code word tension to the case of an inter-symbol-interference channel since the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.”	Equation (1) is reformulated not only by using the Euclidian distance but also by applying the weight of the code word tension to the case of an inter-symbol-interference channel. This is because the Euclidian distance is not proportional to the Hamming distance and the Euclidian distance depends on the combination of information bits and parity bits after an ISI channel.

“It is see from Eq. (1) that the transfer functions of any 2nd order filter characteristics can be obtained by appropriately setting parameters….”	The transfer functions of any 2nd order filter characteristics can be obtained by appropriately setting parameters…which can be seen in Eq. (1).
“Wireless network systems introducing both of the cellular concept and the ad-hoc concept have been proposed [6], [7].”	Wireless network systems introducing both the cellular and the ad-hoc concepts have been proposed [6], [7].

4. PRINCIPLE OF APPROPRIATENESS

a. Be truthful and show politeness and respect for others

(80) Use neutral tone: Avoid inference & implication (P)

Bad	Good
“The degradation by the check markering is supposedly similar to them. Therefore, the so-called epsilon-filter is used to reduce the random noise of low amplitude.”	The degradation by the check markering is similar to them. Therefore, the epsilon-filter is used to reduce the random noise of low amplitude.