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iThenticate

(주)신원데이터넷

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1. 회사 및 Product 소개

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(1) iParadigms, LLC



iParadigms, LLC는 연구자, 교수자, 수학자, 컴퓨터 프로그래머 그룹이 함께 인터넷 표절방지와 교육공학 발전을 위하여 Plagiarism.org로 1996년 설립

<연혁>

- 1996년 UC Berkeley의 연구자들로 구성되어 대학생의 졸업논문의 재사용을 모니터링 하기 위하여 컴퓨터 프로그램 제작 시작
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(2) iThenticate

iThenticate 는 AIP, ACM, Springer, Elsevier, IEEE, Nature Publishing Group 등 전세계 주요 출판사 및 학회들과 제휴하여 iParadigms의 독창적인 기술로 Article간 유사성 비교분석을 통해 학회, 기업, 연구기관 및 정부기관들의 지적 재산을 보호하는 시스템

iThenticate 주요 기능

- Duplication and Plagiarism Detection (논문 중복 개제 및 표절 방지)

iThenticate이 보유하고 있는 전 세계 주요 출판사 및 학회 article, 주요 대학 석, 박사 논문 및 인터넷 자료의 데이터베이스와 이용자가 확인하고자 하는 논문을 word by word로 비교하여 유사성 검사를 시행

- Intellectual Property Protection (지적 재산권 보호)

적절한 인용 절차가 무시된 채 이용자의 아이디어나 저작물이 표절되는 것을 방지하여 원작자 지적 재산을 보호

- Document-to-Documents) Analysis (Document 평가 분석 용이)

iThenticate 데이터베이스와 이용자 논문을 시스템을 활용해 빠르고 정확하게 비교/분석 함으로써 논문 평가 및 편집 과정에서 Editor 및 Peer Reviewer의 업무 시간 단축



전세계 iThenticate 사용 현황

- Infosys
- Microsoft
- Oracle
- Watson Wyatt
- Dun & Bradstreet
- Amba Research
- Training Management Corporation
- SABIS
- Demand Media
- Lifewire
- KPMG
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- Research Triangle International
- National Science Foundation
- US Department of Energy
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- Conference Board of Canada
- NIIT LTD
- Sofizar Constellation CK
- Department of Chemical and Biomedical Engineering

2. iThenticate의 상세 주요 현황

(1) Contents

(2) Key iThenticate Metrics

(3) Technology

a. Core Technology

b. Fingerprint

c. Detection of Word Substitution or Alteration

d. Detection of Sentence or Paragraph Addition

(1) Contents

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- Open Archives
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Via CrossRef (EXCLUSIVE)

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- **Korean Society for Bioinformatics and Systems Biology**

Via CrossRef (EXCLUSIVE)

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- Korean Society of Environmental Engineering
- Korean Society of Sport Biomechanics
- Kyung Hee Oriental Medicine Research Center, Kyung Hee University
- Maney Publishing
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- Mayo Clinic Proceedings
- Mayo Clinic Scientific Press
- MIT Press
- Nature Publishing Group
- New England Journal of Medicine (NEJM)
- Oncology Nursing Society (ONS)
- Optical Society of America
- Oxford University Press
- Palgrave MacMillan
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- Poultry Science Association
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- RMIT Publishing
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- Royal College of Physicians of Edinburgh
- Royal Irish Academy
- ScienceAsia (The Science Society of Thailand)
- Society for Endocrinology

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- The Korean Magnetics Society
- The Korean Mathematical Society
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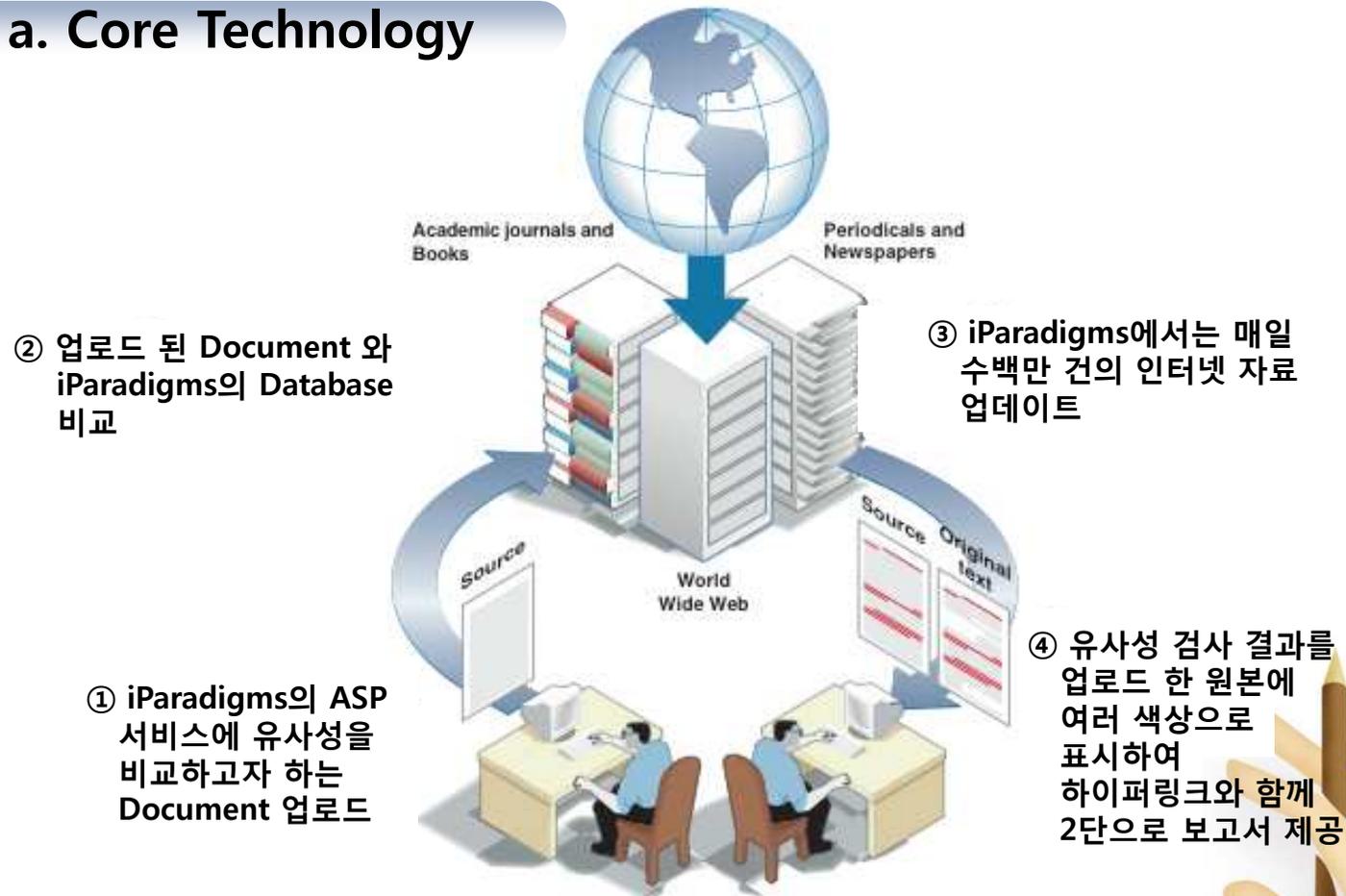
(2) Key iThenticate Metrics

- 90,000여 개 이상의 정기 간행물 및 저널들에 기반하는 데이터베이스
- 2,500만여 이상의 저널 Article 수록
- 140억 페이지 이상의 웹 콘텐츠
- 2억 건 이상의 논문 및 Paper
- 30여 개 언어 지원 (126개 국가 지원)
- 출판사들의 참여도 점진적 증가

- 비영리 회원제로 운영되며 인용정보 링크를 제공하는 CrossRef와 제휴
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- 출판사/ 학회의 제휴가 해마다 증가하고 있음.

(3) Technology

a. Core Technology



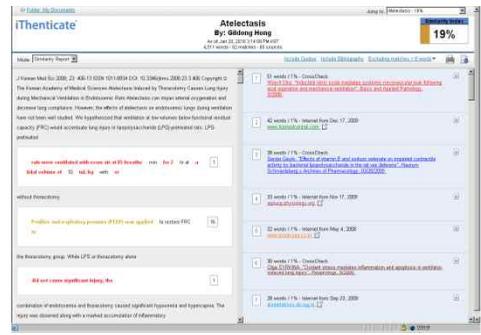
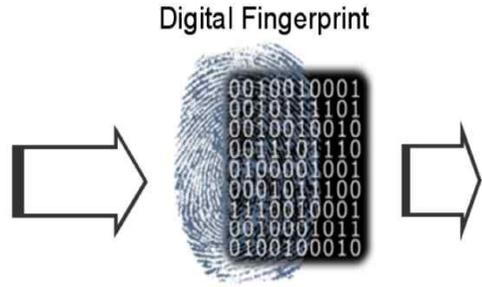
b. Digital Fingerprint

☞ 모든 과정이 대부분 5분 이내로 완료

1. INTRODUCTION
The life insurance market is undergoing a major restructuring and needs to be able to identify and distinguish between the different types of risks. Because of new financing or investment options, the market is becoming more complex. As a result, insurers are putting greater emphasis on reducing their investment risk. Carefully analyzing returns from their various investments, insurers are trying to find the most suitable investment and to set other types of assets (including life insurance contracts) to their long-term objectives. The success of the insurer critically depends on the long-term stability of their investments.

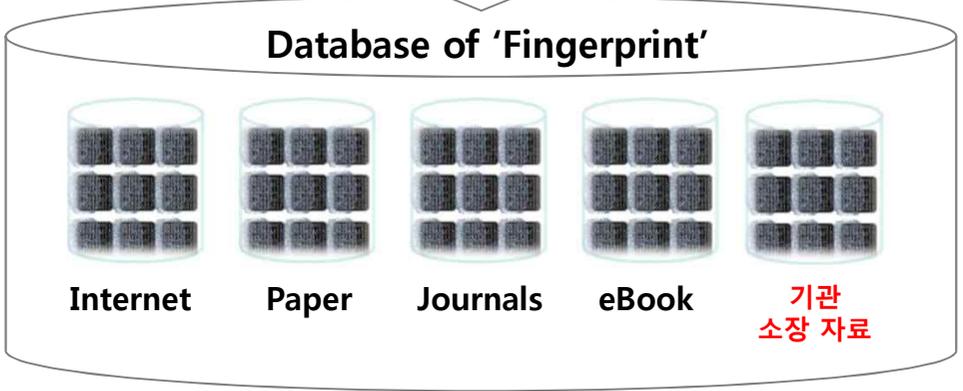
Recognizing the importance of identifying and analyzing the investment risk, insurers are looking for ways to reduce their investment risk. This is not a simple task, as there are many factors that influence the investment risk. However, the use of digital fingerprinting can help insurers to identify and analyze their investment risk more effectively. In this report, we will discuss the concept of digital fingerprinting and how it can be used to reduce investment risk.

2. MODEL SPECIFICATION
The model specifies the structure of the investment portfolio. It is based on the assumption that the investment portfolio is composed of a set of assets. The assets are classified into two groups: "Public" and "Private". The "Public" group includes assets that are publicly traded, such as stocks and bonds. The "Private" group includes assets that are not publicly traded, such as real estate and private equity. The model specifies the weights of each asset in the portfolio. The weights are determined by the investor's risk tolerance and investment objectives. The model also specifies the correlation between the assets. The correlation is a measure of how the returns of two assets move together. The model assumes that the returns of the assets are correlated.

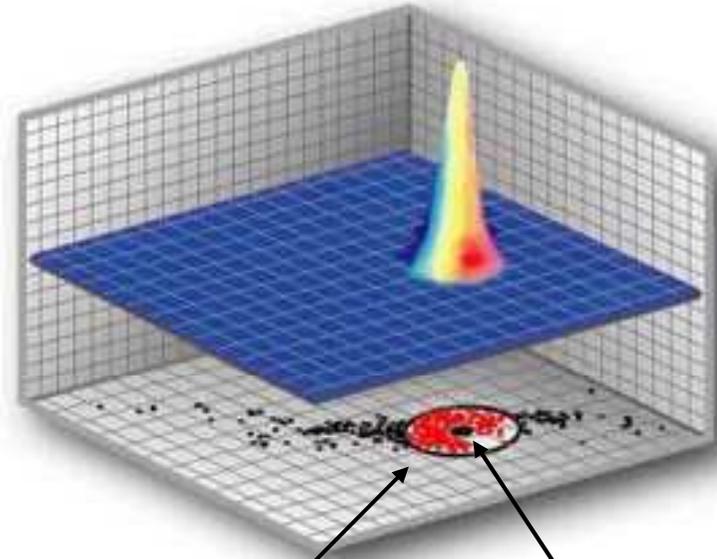


Document

Report

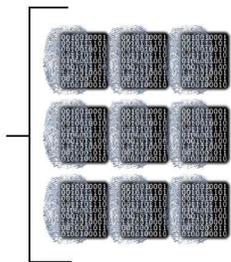


b. Digital Fingerprint - 2



☞ 건축터미에서 바늘 찾기

iParadigms의 독창적인
'Digital Fingerprint'를
이용하여 Document와
Database간 유사단어를
모두 찾아 비교



c. Detection of Word Substitution or Alteration

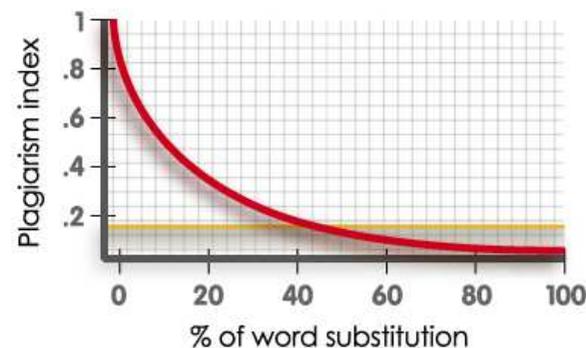
* 단어 변경 또는 수정

MACBETH MANUSCRIPT FROM THE INTERNET (INTRO PARAGRAPH)

Macbeth is presented as a mature man of definitely established character, successful in certain fields of activity and enjoying an enviable reputation. We must not conclude, there, that all his volitions and actions are predictable; Macbeth's character, like any other man's at a given moment, is what is being made out of potentialities plus environment, and no one, not even Macbeth himself, can know all his inordinate self-love whose actions are discovered to be-and no doubt have been for a long time-determined mainly by an inordinate desire for some temporal or mutable good.

SAME MANUSCRIPT WITH MODIFIED WORDS (수정된 원본)

Macbeth is **shown** as **an empowered** man of **well-established** character, **prosperous** in **several** fields of **life** and enjoying an **esteemed** reputation. We **mustn't** conclude, **therefore**, that all **of** his volitions and actions **will be foreseeable** ; Macbeth's **essence** , like **most** other **men** at **any** given **time**, is **what's** being **created** out of potentialities **and his** environment, and no one, not even Macbeth himself, can **discern** all his **immoderate** self-love whose **behaviors** are **found** to be-and **without** doubt have been for **some** time-determined **primarily** by an **extreme** desire for a temporal or **changeable** good.



d. Detection of Sentence or Paragraph Addition

* 문장 추가

PAPER A MACBETH INTERNET DERIVED PAPER (INTRO PARAGRAPH)

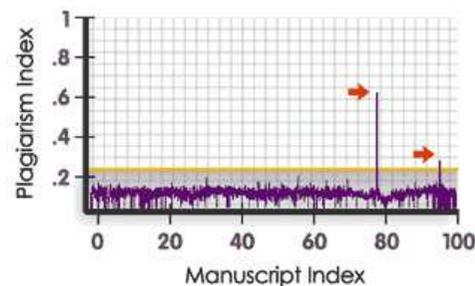
Macbeth is presented as a mature man of definitely established character, successful in certain fields of activity and enjoying an enviable reputation. We must not conclude, there, that all his volitions and actions are predictable; Macbeth's character, like any other man's at a given moment, is what is being made out of potentialities plus environment, and no one, not even Macbeth himself, can know all his inordinate self-love whose actions are discovered to be-and no doubt have been for a long time-determined mainly by an inordinate desire for some temporal or mutable good.

PAPER A + B

MACBETH MODIFIED TEST PAPER WITH COMBINED **ADDED CONTENT**

Shakespeare's famous play, Macbeth, is one of his great tragedies based around the classic theme of the hero's fatal flaw.

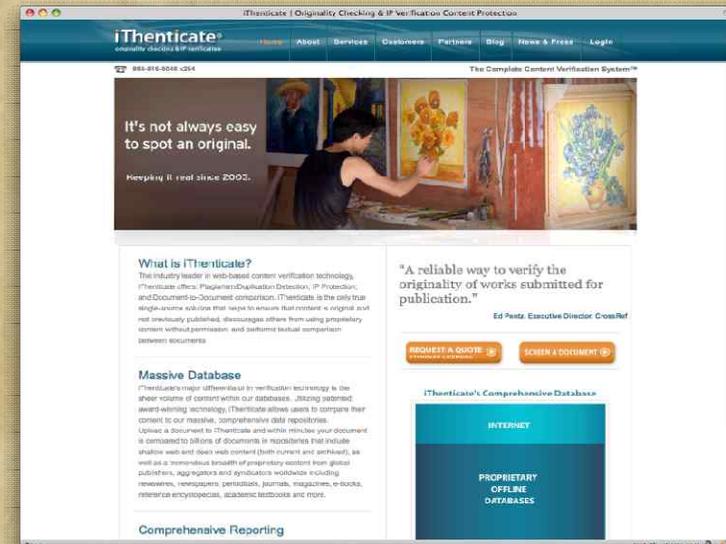
Macbeth is presented as a mature man of definitely established character, successful in certain fields of activity and enjoying an enviable reputation. **Yet, like any man, he is human, and thus in possession of flaw and foibles, hidden that they may be from public eye, and hinted at by foreshadow only by the author.** We must not conclude, there, that all his volitions and actions are predictable; Macbeth's character, like any other man's at a given moment, is what is being made out of potentialities plus environment, and no one, not even Macbeth himself, can know all his inordinate self-love whose actions are discovered to be-and no doubt have been for a long time- determined mainly by an inordinate desire for some temporal or mutable good. **This desire being so strong under certain circumstances as to override all others, even, as is usually the case in tragedy, the ultimate desire of self-preservation.**



3. iThenticate Webpage

(1) 초기 Webpage

(2) 상세 Webpage



(1) 초기 Webpage

폴더 내 업로드 내역

**업로드 된 Paper의 유사성 수치를 표시
클릭하면 상세 Report
화면으로 이동**

폴더 목록

업로드 방식 선택

폴더 생성

Title	Report	Author	Processed	Actions
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2010-03-Paper 1 part - 2,044 words	62%	D. Jang	03/15/10	🗑️ 📄
2010-01-Papaer 1 part - 1,673 words	75%	D. Jang	03/15/10	🗑️ 📄
paper 1 1 part - 2,780 words				🗑️ 📄
paper-10 1 part - 2,746 words	37%	H. gildong	03/10/10	🗑️ 📄
Mitochondria, the missing link between body and soul: Proteomic prospective evidence 2 parts - 18,032 words	58%	J. Han	03/09/10	🗑️ 📄
Atelectasis 1 part - 4,311 words	19%	G. Hong	01/20/10	🗑️ 📄
대한민국 1 part - 1,948 words	21%	G. Hong	01/20/10	🗑️ 📄
김치 1 part - 334 words	96%			🗑️ 📄

(2) 상세 Webpage - 1

업로드 된 원문과 iThenticate Database 내의 타 Article 자료와의 유사성을 %로 표기

Mitochondria, the missing link between body and...
By: Jin Han
As of: Mar 9, 2010 10:20:56 AM KST
15,000 words - 281 matches - 128 sources

Similarity Index: 35%

Mode: Similarity Report

유사성 검사 결과의 디스플레이 방식 선택

Include Quotes Include Bibliography Exclude small matches

인용된 자료 및 참고 문헌을 제외하고 검색하는 기능

원문 내용과 유사한 Article 자료의 출처가 번호로 나열되어 표시

원문에서 발견된 유사 부분은 하이라이트 된 색상 및 번호로 표시되고 있으며 이 부분을 클릭하면 화면 오른쪽에 해당 부분과 유사한 Article이 나타남

1 516 words / 3% - Internet from Jan 9, 2008
www.chem.uky.edu

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4 317 words / 2% - Internet from Feb 6, 2008
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www.ncbi.nlm.nih.gov

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(2) 상세 Webpage - 2

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ultimately, lead

to the oxidation of cytoplasmic proteins (see Figure 1). The chronic exposure of ROS to cells can result in oxidative damage to mitochondrial and cellular proteins, lipids, and nucleic acids, and acute exposure to ROS can inactivate the TCA-cycle aconitase and the iron-sulfur centers of ETC at complexes 1, 2, and 3, resulting in a shutdown of mitochondrial energy production

[124, 127, 128]. The VDAC-assisted release of H₂O₂ and superoxide radicals to the cytoplasm ultimately leads

to the oxidation of cytoplasmic proteins. The chronic exposure of ROS to cells can result in oxidative damage to mitochondrial and cellular proteins, lipids, and nucleic acids, and acute exposure to ROS can inactivate the TCA-cycle aconitase and the iron-sulfur centers of ETC at complexes 1, 2, and 3, resulting in a shutdown of mitochondrial energy production

[127, 129, 130].

Oxidative damage of proteins is one of the modifications leading to a severe failure of biological functions and cell death.

Furthermore, the

several cellular insults, including ultraviolet irradiation [123], redox-cycling of quinones [123], the metabolism of xenobiotics [123], aging [124], environmental mitochondrial toxins [125, 126], and mutant toxic proteins (e.g., A β in AD, mutant huntingtin in Huntington's disease, alpha-synuclein in PD, mutant SOD1 in amyotrophic lateral sclerosis)

5 [5, 8, 87]. FREE RADICALS, ABNORMAL PROCESSING OF APP, AND A β METABOLISM There is

several cellular insults, including ultraviolet irradiation [86], redox-cycling of quinones [86], the metabolism of xenobiotics [86], aging [87], environmental mitochondrial toxins [88-90], and mutant toxic proteins (eg, A β in AD, mutant huntingtin in Huntington's disease, alpha-synuclein in Parkinson's disease, mutant SOD1 in amyotrophic lateral sclerosis)

해당 번호를 클릭하게 되면 해당부분과 유사한 부분의 출처 및 내용이 표시되어 직접적으로 비교가 가능

Plagiarism Prevention

A Service of iParadigms

감사합니다!

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FAX: 02-326-0219

E-MAIL: iThenticate@shinwon.co.kr

<http://www.shinwon.co.kr>

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