

한국DOI센터

KOREA DOI CENTER



연구 연결 (Connected Research)

November 2, 2021 신진섭 (Jin-Seop Shin)

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Korea Institute of Science and Technology Information

Definition

DOI(Digital Object Identifier)

Digital identifier of an Object (ISO 26324)
 E.g.) 10.1000/182

Resolution

■ Resolution is the process in which an identifier is the input — a request — to a network service to receive in return a specific output of one or more pieces of current information (state data) related to the identified entity: e.g., a location (URL) (https://doi.org/10.1000/182)

Landing Page

- A single web page that appears in response to clicking on a search engine optimized search result, marketing promotion, marketing email or an online advertisement("Search Engine Optimization Terminology". 2016-07-15. Retrieved 2016-09-28.).
- A web page where you can view the information of the content through DOI resolution E.g.) Web pages of research articles, data, and patents, etc.

DOI Proxy Server

- The DOI proxy server is a web server that knows how to communicate with the handle system.
- DOI names are included in URLs that use a proxy server to resolve DOI names
 E.g.) https://doi.org/10.1000/182 -> https://www.doi.org/hb.html
 Resolution Landing page





Contents

- Introduction to KDC
- Services
- DOI Applications
- Summary

Introduction to KDC

Vision, Objective, & Strategy

Improving access and influence of Korean research achievements globally

By applying the International Standard Identification System to the research content.

Collaboration with

- Content holders
- DOI registration agencies(RA)
- Other identification systems as ISNI, ORCID

DOI Service

- DOI registration service
- Developing services by scholarly info., scientific data, and public data areas
- Supporting DOI systembased information service industry

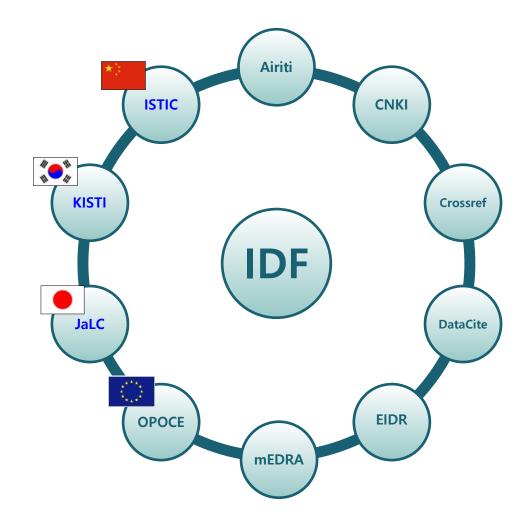
Data Curation

- Supporting data identification, standardization, and linking
- Digital curation support for data collection, preservation, and reuse
- Dissemination of data sharing and citation culture through DOI system



KOREA DOI CENTER

- KISTI established the DOI registration agency promotion plan in 2015.
- As of January 1, 2016, KISTI has served as the unique DOI registration agency in Korea.





DOI Service Target Area

Scholarly Information

- Enhancing the use, citation, and influence of national research results.
- E.g.) Research papers, conference proceedings, reports, etc.

Scientific Data

- Building a basis for access, sharing, and citation of research data.
- E.g.) Experiment, observation, simulation data, etc.

Public Data

- standardizing the public orgaization data and improving easy and persistent accessibility.
- E.g.) Patents, statistics, food and drug information, etc.

Service Industry

- Supporting for business model of information service industries.
- E.g.) information dissemination, IoT content, logistics, etc.



Member

Members = Partners of KDC
Members ≠ Customers of KDC



Statistics

- 1,364 members
- 20,323,795 registrations
- 1,028,190 resolutions / month

As of October 31, 2021

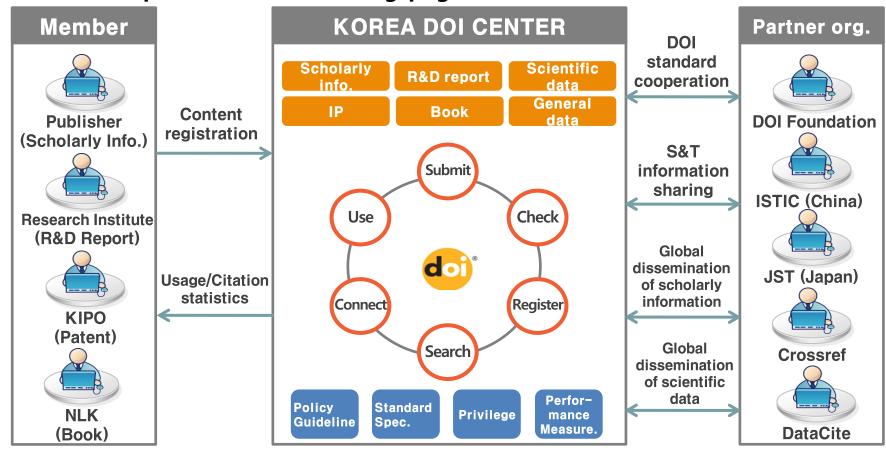
Research article	Proceeding paper	R&D report	Scientific data	Book	Patent	Dissertation	General data	DMP
553,807	326	51,938	2,566,199	3,095,503	13,865,470	312	190,239	1



Services

DOI Service Overview

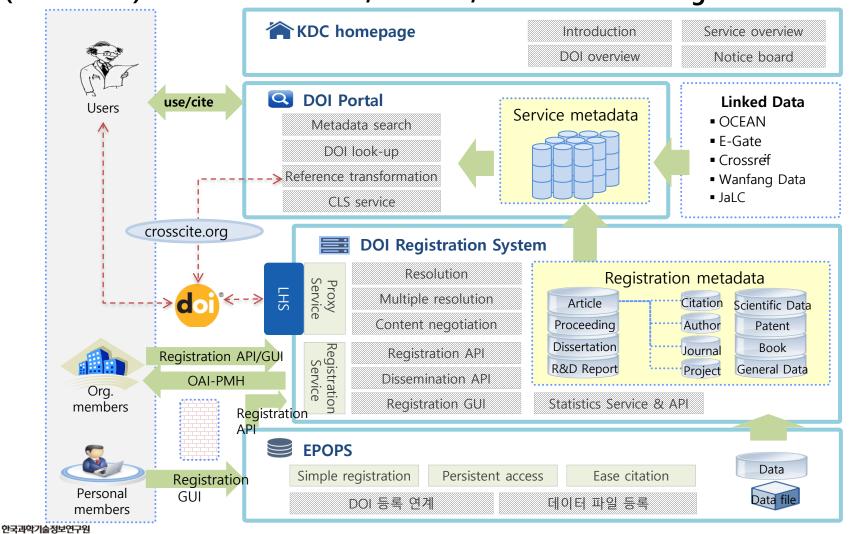
- A series of activities that RA carries out to enhance the influence of content holders globally by ensuring easy and persistent access to content through the DOI system.
- Activities that provide ease of use and usefulness to users by combining DOI, interpretation, and landing pages.



DOI System Configuration

(DOI Registration) System to register and manage content metadata, DOI, and URL

(DOI Portal) Services to browse, connect, and utilize DOI-registered content



DOI Service Pages

DOI Registration: http://doi.or.kr/manage/

DOI Portal : http://data.doi.or.kr

EPOPS : http://epops.kr

Widelines: https://doi.org/10.22655/EDU



[DOI registration main page]



[DOI Portal Search]

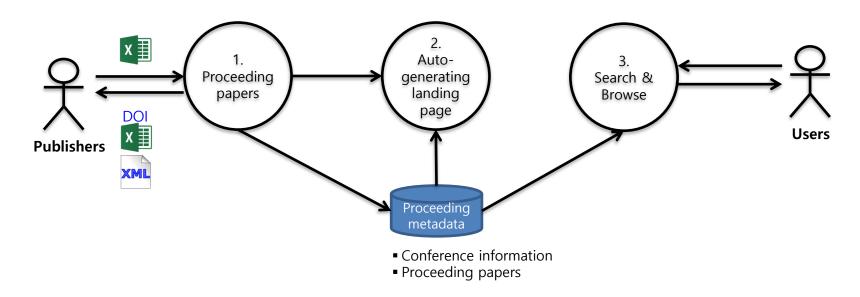


[EPOPS main page]



Auto-generated Landing Page

- When DOI is registered, a landing page is automatically generated.
- If there is no landing page for the content, it is used for the purpose of quickly publishing the content.
- The url is http://data.doi.or.kr/{doi}



[Concept diagram for automatically generating the conference proceeding papers landing page]



DOI Service URL

DOI registration : http://doi.or.kr/manage/

Landing page : http://data.doi.or.kr/{DOI}

Citation : http://data.doi.or.kr/cite/{DOI}

Cited-by: http://data.doi.or.kr/citedby/{DOI}

History: http://data.doi.or.kr/history/{DOI}

QR Code : http://data.doi.or.kr/qr/{DOI}

HTML : http://data.doi.or.kr/text/html/{DOI}

JSON : http://data.doi.or.kr/application/json/{DOI}

BibTeX : http://data.doi.or.kr/application/x-bibtex/{DOI}

RIS : http://data.doi.or.kr/application/x-Research-Info-Systems/{DOI}

Citeproc+json : http://data.doi.or.kr/application/citeproc+json/{DOI}

E.g.)

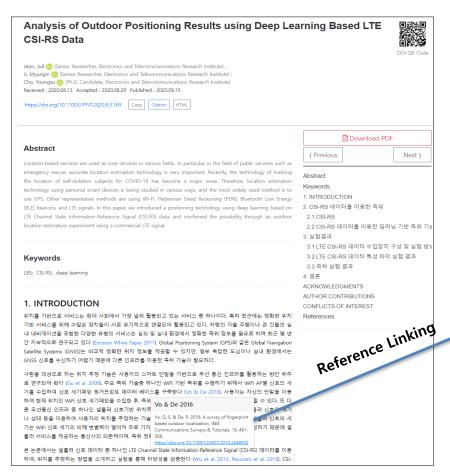
https://data.doi.or.kr/10.3743/KOSIM.2011.28.2.117 https://data.doi.or.kr/cite/10.3743/KOSIM.2011.28.2.117

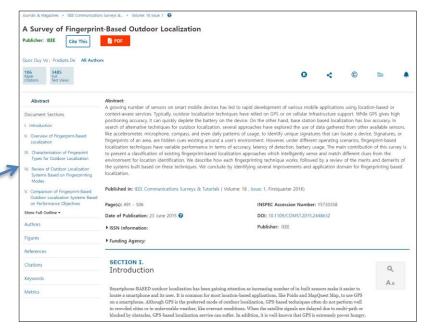


DOI Applications

Research Article Identification and Reference Linking

- A DOI is assigned when a article is published.
- References with DOI name can be accessed with one click.
- It is recommended to register references to obtain Cited-by information.



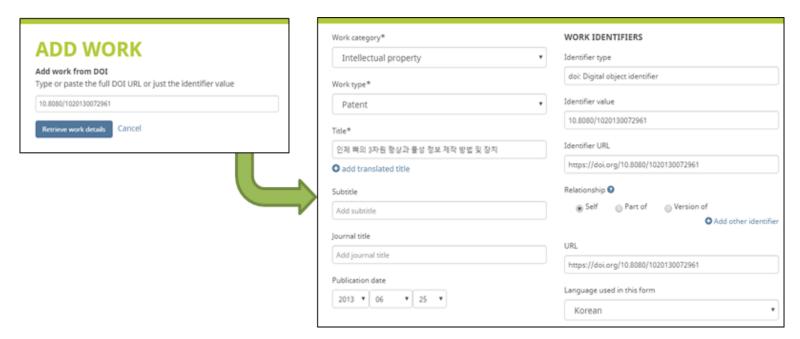




Auto-registration of ORCID Records with DOI

Users can automatically register their works in the ORCID profile through the DOI names of their works.

- Researchers can conveniently manage their research results.
- KDC supports for automatic registration of ORCID records for patents and books as well as research papers for the first time in the world
- From 2022, automatic update of ORCID profile will be implemented in KDC

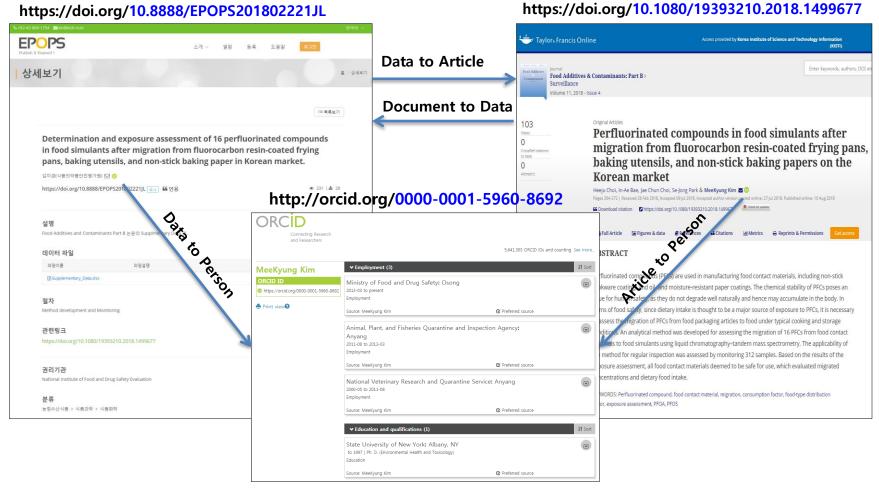


[ORCID ADD Work]



Linking documents, data, and researchers using DOI and ORCID

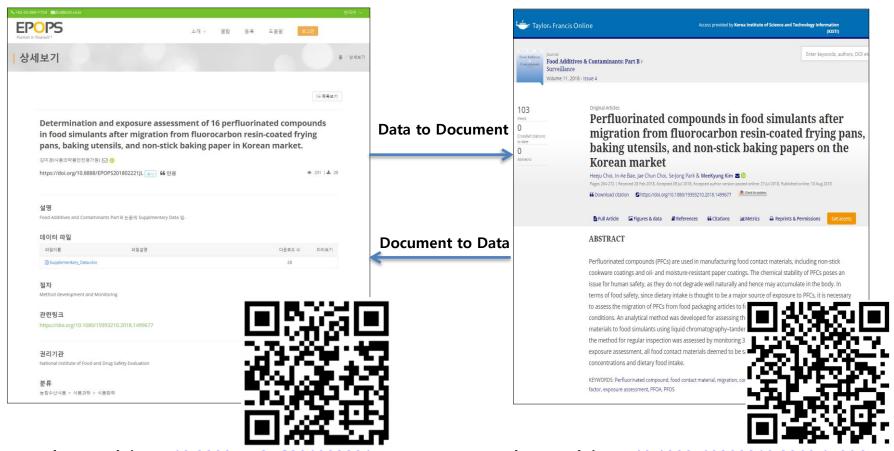
- Contributors of data and authors of papers are linked through ORCID.
- ORCID is suitable for researchers who want to actively disclose their profile.





DLI (Data Literature Interlinking)

- KDC member organizations can already register DOI on scientific data.
- Individual researchers can register data and DOI at EPOPS (http://epops.kr)



https://doi.org/10.8888/EPOPS201802221JL

https://doi.org/10.1080/19393210.2018.1499677



Connect space - Phaya Thone Zu Temple in Bagan, Myanmar









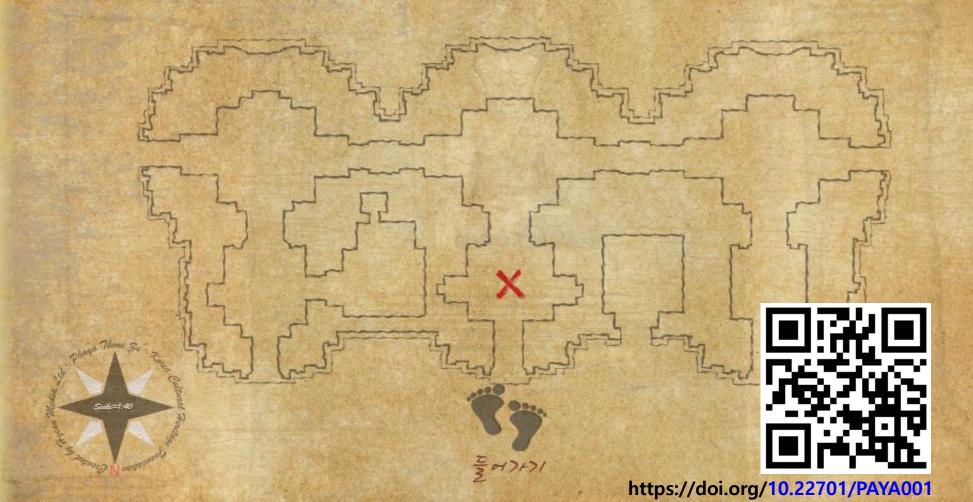
中10年中日十八十十八十四十四十日至日日

गारे : 2018 वि में हा 2023 वि गान्स

THAT: THOF E 7 HAY Phaya Thon Zu



Kores Cultural Heritage Foundation



Eradication of Imitations

특허청, `짝퉁` 한류 브랜드 근절 나선다

이준기 기자 bongchu@dt.co.kr | 입력: 2016-02-22 14:14



















중소 패션 가방·의류 제조업체인 갤러리에이엠은 국내 유명 동양화가 육심원 작가의 일러스트 를 활용해 가방, 의류, 문구 등을 생산·판매해 왔다. 2014년에는 한 방송 드라마 간접광고(PPL) 로 인지도가 급상승하면서 중국인들에게 널리 알려지기 시작했다. 그러나, 주력제품인 가방 모조품이 정가의 20~40% 수준에서 중국 내 온·오프라인 도매상을 중심으로 유통되고, 심지어 중국 오픈마켓에 게시된 판매목록의 70% 이상이 위조상품인 것을 발견했다.

특허청, 짝퉁 가공 포장육 제조·유통업자 적발

8개월간 가짜 포장육 총 6만여 점(시가 **11**억원 상당, 약 **67**톤) 판매

김정환 기자 │ 기사입력 2018/08/23 [18:58]

특허청(청장 성윤모) 상표권 특별사법경찰(이하 특사경)은 국내 유명 대기업 제품인 것처럼 속인 가 짜 양념 포장육을 제조한 A(35세)씨와 이를 유통시킨 B(52세)씨를 상표법 위반혐의로 입건했다고 밝혔다.



Certificate of Patents, Trademark Registration

KIPO (Korean Intellectual Property Office) assigns DOI QR codes to all patent certificates and trademark registration certificates so that the right holder can be identified.









Convenient Access to Korean Patent Publications

KIPO started a service that allows users to easily check patent details and registration status through DOI QR code in April 2018.

- Patent publication: http://doi.org/10.8080/{applicaiton number}
- Registration status : http://doi.org/10.8080/{registration number}





[Detailed View of a Patent Document in KIPRIS]





ISBN-A

ISBN-A ("the actionable ISBN") is a DOI name derived from an existing ISBN, by including the ISBN in the syntax string of the DOI

ISBN : Book supply chain management

ISBN-A: one-click connection that enhances the reader's experience with the book

ISBN: 9791186326022

ISBN-A: 10.979.1186326/022

후배에게 상속하는 JAVA 코딩&프로그래밍



- 표제/저자사항
- ISBN 정보
- ISBN-A
- 발행사항
- CIP 제어변호
- 분류 기호
- 출판사 홈페이지
- 납본여부

후배에게 상속하는 JAVA 코딩&프로그래밍 / 백광 홈 한병권 김다현 박수진 이신정

979-11-86326-02-2 [93500]

가격: 25000

https://doi.org/10.979.1186326/022

피엔포드, 발행일: 20161216

CIP2016029287

한국십진분류법-> 005.133 듀이십진분류법-> 005.133

http://www.pnpod.com

납본

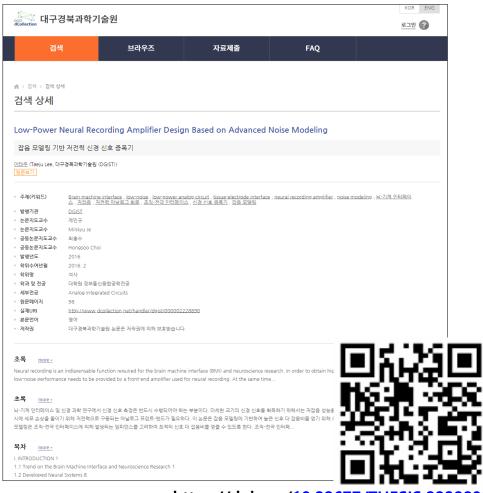


https://doi.org/10.979.1186326/022



Dissertation

It provides a convenient means of citing the thesis by assigning a DOI to the thesis.





https://doi.org/10.22677/THESIS.2228890



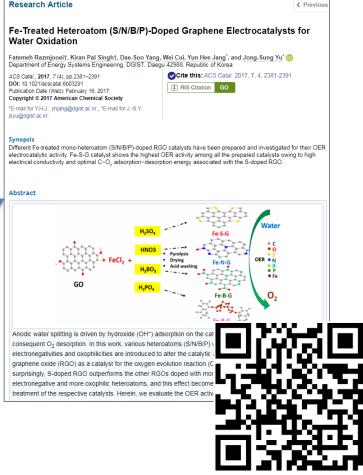
Curation

DGIST Weekly Article

DGIST provides a curation service for research papers of its affiliated researchers.

Research Article





https://doi.org/10.1021/acscatal.6b03291



Summary

Summary

Term definition

- DOI (Digital Object Identifier)
- Resolution
- Landing Page
- DOI Proxy Server

Introduction to KDC

Unique regional DOI registration agency in Korea

DOI services

 Activities that provide ease of use and usefulness to users by combining DOI, interpretation, and landing pages.

DOI applications

- Research Article Identification and Reference Linking
- Automatic registration of research history
- Connect researchers, data, and research papers
- Enhancing the Reader's Experience (ISBN-A)
- Thesis citation
- Curation





Thank you.

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■ Email : doi@kisti.re.kr

