

OCLC 2020

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# 檢索範例說明

- 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)
- 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄
- 檢索範例3：檢索IEEE於2019年出版的學術論文
- 檢索範例4：檢索關於“虛擬現實技術在PTSD治療中的應用”的研究成果

# 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)

基本檢索 進階檢索 專家檢索 歷次檢索 請到

最新消息 線上輔助

目前所選的資料庫: OAIster

檢索 清除

所檢索的資料庫: OAIster (已更新: 2019-12-20)  
數位資源的聯合目錄

查詢: Stephen Hawking 著者

and 關鍵詞

and 關鍵詞

限制內容:

年  (格式: YYYY-YYYY)

文獻類型 所有

語種片語 無限制

語種 無限制

收藏館數 所有

排序: 相關率

進入檢索後，使用進階檢索，查詢項目選取“著者”，由於 Stephen Hawking 在不同的文獻可能用上全名，或簡稱

如 Stephen Hawking W.

\*為了防止遺漏檢索結果，所以選用“著者”，而非“著者片語”  
\*配合“相關率”，檢索結果以相關度降冪排序

# 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)

首頁 資料庫 檢索 結果 館員查看 | 我的帳號 | 選項 | 意見 | 退出 | 隱藏提示

記錄一覽表 詳細書目記錄 註記結果 請到

排序 限制 電郵書目 列印 輸出 線上輔助

OAlster 檢索項目: au: Stephen and au: Hawking. (儲存檢索)  
找到的記錄: 87 排序: 相關性

查找相關資料庫 學術論文 (ArticleFirst) 期刊文章 (ECO) 屢次檢索

Prev 1 Next

- 1. **The Future of the Universe**  
著者: Hawking, Stephen W. 出版: California Institute of Technology  
資料: 網路資源 文檔資料  
請參看查找此項目的詳情
- 2. **The Future of the Universe**  
著者: Hawking, Stephen W. 出版: California Institute of Technology  
資料: 網路資源 文檔資料  
請參看查找此項目的詳情
- 3. **The conformal BMS group**  
著者: Haco, Sasha J.; Hawking, Stephen W. Perry, Malcolm J.; Bourjaily, Jacob L.  
資料: 英語: 文檔資料  
請參看查找此項目的詳情
- 4. **Should China build the Great Collider?**  
著者: Hawking, Stephen Kane, Gordon  
資料: 網路資源 文檔資料  
請參看查找此項目的詳情

檢索結果：87 筆

資料為 網路資源，包含全文的連結

# 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)

首頁 資料庫 檢索 結果 館員查看 | 我的帳號 | 選項 | 意見 | 退出 | 隱藏提示

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Prev 1 Next

- 1. **The Future of the Universe**  
著者: Hawking, Stephen W. 出版: California Institute of Technology  
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資料: 網路資源 文檔資料  
請參看查找此項目的詳情
- 3. **The conformal BMS group**  
著者: Haco, Sasha J.; Hawking, Stephen W.; Perry, Malcolm J.; Bourjaily, Jacob L.  
資料: 英語: 文檔資料  
請參看查找此項目的詳情
- 4. **Should China build the Great Collider?**  
著者: Hawking, Stephen; Kane, Gordon  
資料: 網路資源 文檔資料  
請參看查找此項目的詳情

檢索結果：87 筆

資料為 網路資源，包含全文的連結

# 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)

首頁 資料庫 檢索 結果 館員查看 | 我的帳號 | 選項 | 意見 | 退出 | 隱藏提示

記錄一覽表 詳細書目記錄 註記結果 請到

電郵書目 列印 輸出 線上輔助

OA1ster 檢索項目： au: Stephen and au: Hawking. 記錄 1 屬於 87.

Prev 1 Next 註記:

**題名: The Future of the Universe**  
著者: Hawking, Stephen W.  
出版: California Institute of Technology  
語種: 尚未決定  
摘要: Will the universe last forever or collapse in a Big Crunch? Only an oracle can tell.  
檢索: <http://calteches.library.caltech.edu/3684/1/Universe.pdf> 規定的資料: Item Resolution URL 說明: Put this Resolution URL in a web browser to view this item.

主題

體裁/形式: Article  
NonPeerReviewed  
識別符: Feature Articles  
註釋: application/pdf  
綜合資訊: Open access content/ Open access content  
歸類: 網路資源 (url)  
資料類型: 網路資源; 文檔資料  
登記日期: 20200305  
更新日期: 20200305  
系統號: OCLC: 1143324606  
資料庫: OA1ster

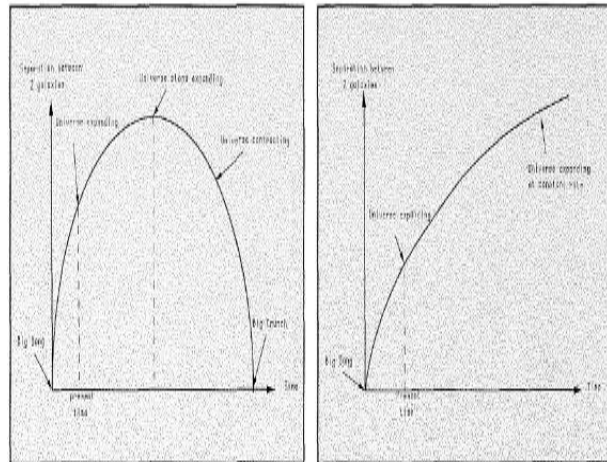
以第一筆為例子，點選連結取用全文

# 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)

## The Future of the Universe

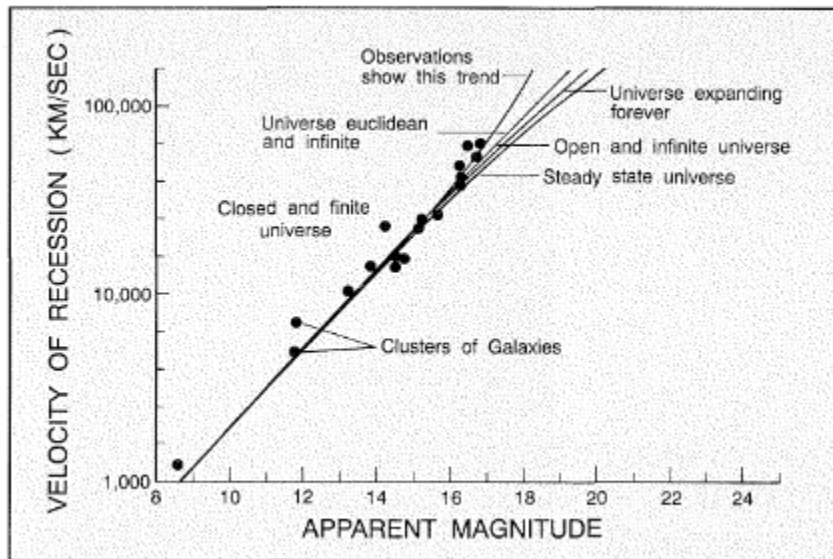
by Stephen W. Hawking

*There are certain situations in which we think that we can make reliable predictions, and the future of the universe, on a very large scale, is one of them.*



Expansion of the universe can be described by the separation between two galaxies. Gravitational attraction should slow down the expansion and eventually, if the average density of the universe is above a certain critical value, cause it to collapse to a Big Crunch. If the density is less than the critical value, the universe will continue to expand forever, the gravitational attraction having less and less of an effect on slowing it down.

# 檢索範例1：檢索霍金(Stephen Hawking)的著作 (英國理論物理學家、宇宙學家及作家)



*Isn't there something we can do to make the future more interesting? One way that would certainly do that would be to steer ourselves into a black hole.*



## 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄

基本檢索 進階檢索 專家檢索 歷次檢索 請到

索引 最新消息 線上輔助 目前所選的資料庫：OAlster

檢索 清除

所檢索的資料庫： OAlster (已更新: 2019-12-20)  
數位資源的聯合目錄

查詢: (kw:AI) or (kw:Artificial Intelligence) or (kw:machine Intelligence)

索引項目: 關鍵詞 (kw:)

限制內容:

年: 2016-2020 (格式: YYYY-YYYY)

文獻類型: 網路資源

語種片語: 無限制

語種: 英語

收藏館數: 所有

排序: 相關率

由於人工智慧有不同的專有名稱或簡稱，使用組合條件較為適合

1. kw: 為關鍵詞查詢
2. or 布林邏輯
3. 年代 = 2016-2020
4. 文獻類型=網路資源
5. 語種 = 英語
6. 排序=相關率

## 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄

記錄一覽表 詳細書目記錄 註記結果 請到

限制 電郵書目 列印 輸出 線上輔助

OAIster 檢索項目: **kw: AI or ((kw: Artificial and kw: Intelligence)) or ((kw: machine and kw: Intelligence)) and yr: 2016-2020 and dt= "url" and la= "eng"** (儲存檢索)

找到的記錄: 7,009

◀ 1 ▶  
Prev Next

**檢索結果：7009筆**

- 1. **[Reporting of artificial intelligence prediction models](#)**  
著者: Collins, Gary S.; Moons, Karel G.M. 出版: Elsevier Limited  
資料: 英語: 網路資源 文檔資料  
請參看查找此項目的詳情
- 2. **[The crystal structure of zwitterionic 2-\(\(\(4-iminiumyl- 3-methyl-1,4-dihydropyridin-1-yl\)methyl\)- carbamoyl\)benzoate hemihydrate](#)**  
著者: C. S., Chidan Kumar; Ai, Jia Sim; Weng, Zhun Ng; Tze, Shyang Chia; Loh, Wan Sin; Huey, Chong Kwong; Ching, Kheng Quah; S., Naveen; N. K., Lokanath; Warad, Ismail 出版: International Union of Crystallography 在: The crystal structure of zwitterionic 2-(((4-iminiumyl- 3-methyl-1,4-dihydropyridin-1-yl)methyl)- carbamoyl)benzoate hemihydrate  
資料: 英語: 網路資源 文章  
請參看查找此項目的詳情
- 3. **[The Effects Of Visual Signalling Principle In A Desktop Virtual Reality Based Learning Environment On Students' Performance, Cognitive Load And Perceived Motivation](#)**  
著者: Wong, Ai Chin 在: The Effects Of Visual Signalling Principle In A Desktop Virtual Reality Based Learning Environment On Students' Performance, Cognitive Load And Perceived Motivation  
學位論文: Thesis / Dissertation ETD  
資料: 英語: 網路資源  
請參看查找此項目的詳情
- 4. **[Epistemic Computation and Artificial Intelligence](#)**  
著者: Muller, Vincent C.; Wiedermann, Jiri; van Leeuwen, J. 出版: Springer Springer  
資料: 英語: 網路資源 文檔資料  
請參看查找此項目的詳情
- 5. **[Derivation of generalized Young' s equation for cylindrical droplets between the outer surfaces of two tangent cylinders](#)**  
著者: Zhou, Long; Chen, Jun-Jie; Hu, Ai-Jun; Wang, Xiao-Song 出版: Journal for Foundations and Applications of Physics  
資料: 英語: 網路資源 文檔資料  
請參看查找此項目的詳情

## 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄

首頁 資料庫 檢索

基本檢索 進階檢索 專家檢索 歷次檢索 請到

索引 最新消息 線上輔助

檢索 清除

kw 改為 ti 改為檢索  
點由關鍵詞為題名

所檢索的資料庫： OAIster (已更新: 2019-12-20)  
數位資源的聯合目錄

查詢：  
ti: AI or ((kw: Artificial and kw: Intelligence)) or ((kw: machine and kw: Intelligence)) and yr: 2016-2020 and dt= "url" and la= "eng"

檢索結果：7009筆

自學語法小技巧：

上方顯示出組合條件的語法 kw: AI or ((kw: Artificial and kw: Intelligence)) or ((kw: machine and kw: Intelligence)) and yr: 2016-2020 and dt= "url" and la= "eng"

日後可作為查詢組合的藍本，修改需要的內容，貼上專業查詢的查詢框上，便進能行專業查詢，省下勾選條件時間

## 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄



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註記:

題名: **Enhancing cardiovascular artificial intelligence (AI) research in the Netherlands : CVON-AI consortium**

著者: Benjamins, J. W.; van Leeuwen, K.; Hofstra, L.; Rienstra, M.; Appelman, Y.; Nijhof, W.; Verlaat, B.; Everts, I.; den Ruijter, H. M.; Isgum, I.; Leiner, T.; Vliegenthart, R.; Asselbergs, F. W.; Juarez-Orozco, L. E.; van der Harst, P.

出版: Bohn Stafleu van Loghum

語種: 英語; English

檢索: <http://hdl.handle.net/1874/389598> 規定的資料: Item Resolution URL 說明: Put this Resolution URL in a web browser to view this item.

綜合資訊: Open access content/ Open access content/ Open Access (free)

歸類: 網路資源 (url)

資料類型: 網路資源; 文檔資料

登記日期: 20200312

更新日期: 20200312

系統號: **OCLC:** 1136583350

資料庫: OAlster

以其中一筆為例子，點選連結  
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## 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄

### Enhancing cardiovascular artificial intelligence (AI) research in the Netherlands : CVON-AI consortium

Benjamins, J. W.; van Leeuwen, K.; Hofstra, L.; Rienstra, M.; Appelman, Y.; Nijhof, W.; Verlaat, B.; Everts, I.; den Ruijter, H. M.; Isgum, I.; Leiner, T.; Vliegenthart, R.; Asselbergs, F. W.; Juarez-Orozco, L. E.; van der Harst, P.

(2019) Netherlands Heart Journal, volume 27, issue 9, pp. 414 - 425

(Article)

#### Abstract

Background: Machine learning (ML) allows the exploration and progressive improvement of very complex high-dimensional data patterns that can be utilised to optimise specific classification and prediction tasks, outperforming traditional statistical approaches. An enormous acceleration of ready-to-use tools and artificial intelligence (AI) applications, shaped by the emergence, refinement, and application of [... read more](#)

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Author keywords: Artificial intelligence, Cardiovascular disease, CVON-AI consortium, Machine learning, Cardiology and Cardiovascular Medicine, Journal Article

ISSN: 1568-5888

Publisher: Bohn Stafleu van Loghum

(Publisher version, Peer reviewed)



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# 檢索範例2：檢索近五年間人工智慧領域相關研究成果的英文全文記錄

Neth Heart J (2019) 27:414–425  
<https://doi.org/10.1007/s12471-019-1261-y>



## Enhancing cardiovascular artificial intelligence (AI) research in the Netherlands: CVON-AI consortium

J. W. Benjamins · K. van Leeuwen · L. Hofstra · M. Rienstra · Y. Appelman · W. Nijhof · B. Verlaet · I. Everts · H. M. den Ruijter · I. Isgum · T. Leiner · R. Vliegenthart · F. W. Asselbergs · L. E. Juarez-Orozco · P. van der Harst

Published online: 20 May 2019  
© The Author(s) 2019

### Abstract

**Background** Machine learning (ML) allows the exploration and progressive improvement of very complex high-dimensional data patterns that can be utilised to optimise specific classification and prediction tasks, outperforming traditional statistical approaches. An enormous acceleration of ready-to-use tools and artificial intelligence (AI) applications, shaped by the emergence, refinement, and application of powerful ML algorithms in several areas of knowledge, is ongoing. Although such progress has begun to permeate the medical sciences and clinical medicine, implementation in cardiovascular medicine and research is still in its infancy.

**Objectives** To lay out the theoretical framework, purpose, and structure of a novel AI consortium.

**Methods** We have established a new Dutch research consortium, the CVON-AI, supported by the Netherlands Heart Foundation, to catalyse and facilitate the development and utilisation of AI solutions for existing and emerging cardiovascular research initiatives and to raise AI awareness in the cardiovascular research community. CVON-AI will connect to previously established CVON consortia and apply a cloud-based AI platform to supplement their planned traditional data-analysis approach.

**Results** A pilot experiment on the CVON-AI cloud was conducted using cardiac magnetic resonance data. It demonstrated the feasibility of the platform and doc-

H. M. den Ruijter · I. Isgum · T. Leiner · F. W. Asselbergs  
Department of Cardiology, Division Heart and Lungs,  
University Medical Center Utrecht, University of Utrecht,  
Utrecht, The Netherlands

J. W. Benjamins · M. Rienstra · L. E. Juarez-Orozco · P. van der Harst (✉)  
University of Groningen, University Medical Center  
Groningen, Department of Cardiology, Groningen, The  
Netherlands  
p.van.der.harst@umcg.nl

K. van Leeuwen · I. Everts  
Go Data Driven, Amsterdam, The Netherlands

L. Hofstra  
Cardiologie Centra Nederland B.V., Utrecht, The Netherlands

L. Hofstra · Y. Appelman  
Department of Cardiology, Amsterdam Universities Medical  
Centre, location VU Medical Centre, Amsterdam, The  
Netherlands

W. Nijhof  
Siemens Healthcare Nederland B.V., Den Haag, The  
Netherlands

B. Verlaet  
Binx.io B.V., Amsterdam, The Netherlands

R. Vliegenthart  
University of Groningen, University Medical Center  
Groningen, Department of Radiology, Groningen, The  
Netherlands

F. W. Asselbergs · P. van der Harst  
Durrer Center for Cardiovascular Research, Netherlands  
Heart Institute, Utrecht, The Netherlands

F. W. Asselbergs  
Institute of Cardiovascular Science, Faculty of Population  
Health Sciences, University College London, London, UK  
Institute of Health Informatics, University College London,  
London, UK

L. E. Juarez-Orozco  
Turku PET Centre, Turku University Hospital and University  
of Turku, Turku, Finland

P. van der Harst  
University of Groningen, University Medical Center  
Groningen, Department of Genetics, Groningen, The  
Netherlands



# 檢索範例3：檢索IEEE於2019年出版的學術論文

基本檢索 進階檢索 專家檢索 歷次檢索 請到

索引 最新消息 線上輔助

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所檢索的資料庫： OAister (已更新: 2019-12-20)  
數位資源的聯合目錄

查詢：  
**(pb=IEEE) or (pb=Institute of Electrical and Electronics Engineers)**

索引項目： 關鍵詞 (kw:)

限制內容：  
年 **2019** (格式: YYYY-YYYY)  
文獻類型 **網路資源**  
語種片語 無限制  
語種 無限制  
收藏館數 所有

排序：  
**日期**

由於IEEE是簡稱，全名為Institute of Electrical and Electronics Engineers，使用組合條件較為適合

1. pb= 為出版者查詢
2. or 布林邏輯
3. 年代 = 2019
4. 文獻類型=網路資源
5. 排序=日期

# 檢索範例3：檢索IEEE於2019年出版的學術論文

記錄一覽表 詳細書目記錄 註記結果 請到

限制 電郵書目 列印 輸出 線上輔助

OA1ster 檢索項目: pb= "IEEE" or (pb= "Institute of Electrical and Electronics Engineers") and yr: 2019 and dt= "url" . [\(儲存檢索\)](#)  
找到的記錄: 934 排序: 日期

◀ 1 ▶  
Prev Next

- 1. [Commercial and technical productionization for fact-based product portfolio management over lifecycle](#)  
著者: Lahtinen, N. (Niko); Mustonen, E. (Erno); Harkonen, J. (Janne) 出版: Institute of Electrical and Electronics Engineers  
資料: 英語: 網路資源 文檔資料  
[請參看查找此項目的詳情](#)
- 2. [A single-shot approach using an LSTM for moving object path prediction](#)  
著者: Fernandez, Jaime B.; Little, Suzanne; O' Connor, Noel E. 出版: IEEE 在: Fernandez, Jaime B., Little, Suzanne ORCID: 0000-0003-3281-3471 <https://orcid.org/0000-0003-3281-3471> and O' Connor, Noel E. ORCID: 0000-0002-4033-9135 <https://orcid.org/0000-0002-4033-9135> (2019) A single-shot approach using an LSTM for moving object path prediction. In: Ninth International Conference on Image Processing Theory, Tools and Applications (IPTA), 6-9 Nov 2019, Istanbul, Turkey. ISBN 978-1-7281-3975-3  
資料: 英語: 網路資源 電腦資料  
[請參看查找此項目的詳情](#)
- 3. [CRASH: A Collaborative Aerial-ground Exploration System Using Hybrid-frontier Method](#)  
著者: Wang, Luqi ECE; Gao, Fei; Cai, Fenyu; Shen, Shaojie 出版: IEEE  
資料: 英語: 網路資源 文檔資料  
[請參看查找此項目的詳情](#)
- 4. [Surface defect classification for hot-rolled steel strips by selectively dominant local binary patterns](#)  
著者: Luo, Q. (Qiwu); Fang, X. (Xiaoxin); Sun, Y. (Yichuang); Liu, L. (Li); Ai, J. (Jiaqiu); Yang, C. (Chunhua); Simpson, O. (Oluyomi) 出版: Institute of Electrical and Electronics Engineers  
資料: 英語: 網路資源 文檔資料  
[請參看查找此項目的詳情](#)
- 5. [Increasing variable stiffness actuator-response using an electromagnetic spring](#)  
著者: Yang, Han Ping (author); Jang, Chau Shin (author); van der Kooij, H. (author) 出版: IEEE  
資料: 英語: 網路資源 文檔資料  
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- 6. [A Review of Wearable Sensor Systems to Monitor Plantar Loading in the Assessment of Diabetic Foot Ulcers](#)  
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註記: **題名:** Commercial and technical productionization for fact-based product portfolio management over lifecycle**著者:** Lahtinen, N. (Niko); Mustonen, E. (Erno); Harkonen, J. (Janne)**出版:** [Institute of Electrical and Electronics Engineers](#)**語種:** 英語; English**摘要:** Abstract Increasing product variety and expanding commercial offering create a challenge for companies in terms of keeping their product portfolio profitable and managing it through the entire lifecycle of products. Effective productionization and product portfolio management (PPM) practices, supported by product structure considerations, may hold a key for product profitability over lifecycle. This article examines the current practices and improvement possibilities in productionization and PPM, including the targets and key performance indicators (KPI), by considering the product lines of a global engineering company. The analysis utilizes the previous literature, company interviews, and relevant company materials. The article demonstrates company difficulties, which are stemming from inadequate definition of productionization and imperfect PPM targets and KPIs over the product lifecycle. An initial framework is formed to support more holistic productionization over product lifecycle alongside creating suitable PPM targets and KPIs.**檢索:** <http://urn.fi/urn:nbn:fi-fe2019120946271> 規定的資料: Item Resolution URL 說明: Put this Resolution URL in a web browser to view this item.**主題****體裁/形式:** info:eu-repo/semantics/article  
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N. Lahtinen, E. Mustonen and J. Harkonen, "Commercial and Technical Productization for Fact-Based Product Portfolio Management Over Lifecycle," in IEEE Transactions on Engineering Management. doi: 10.1109/TEM.2019.2932974

### Commercial and technical productization for fact-based product portfolio management over lifecycle

<b>Author:</b>	Lahtinen, Niko <sup>1</sup> ; Mustonen, Erno <sup>1</sup> ; Harkonen, Janne <sup>1</sup>
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# Commercial and Technical Productization for Fact-Based Product Portfolio Management Over Lifecycle

Niko Lahtinen, Erno Mustonen, and Janne Harkonen 

**Abstract**—Increasing product variety and expanding commercial offering create a challenge for companies in terms of keeping their product portfolio profitable and managing it through the entire lifecycle of products. Effective productization and product portfolio management (PPM) practices, supported by product structure considerations, may hold a key for product profitability over lifecycle. This article examines the current practices and improvement possibilities in productization and PPM, including the targets and key performance indicators (KPI), by considering the product lines of a global engineering company. The analysis utilizes the previous literature, company interviews, and relevant company materials. The article demonstrates company difficulties, which are stemming from inadequate definition of productization and imperfect PPM targets and KPIs over the product lifecycle. An initial framework is formed to support more holistic productization over product lifecycle alongside creating suitable PPM targets and KPIs.

**Index Terms**—Key performance indicator, lifecycle management, product lifecycle, product management, product portfolio

added to the portfolio and how the productization should be done, to create a competitive commercial offering and to satisfy the most important customer requirements cost efficiently.

Product portfolio management (PPM) seeks to tackle product management, and range of offering related challenges by aiming to optimize and allocate the scarce resources between the different projects to achieve the business's new product and technology objectives [8]. However, the approach offered by [8] does not address the challenges with the existing active products and their management, nor the wider lifecycle angle, as the focus is mainly on prioritizing the research and development (R&D) projects. In fact, most of the earlier PPM literature focuses merely on the management of R&D or new product development (NPD) projects [8]–[13], thus neglecting the product lifecycle aspect. [14] have listed some of the current challenges caused by this type of limited PPM perspective, but the topic is otherwise not well covered by the literature. The challenges include, for

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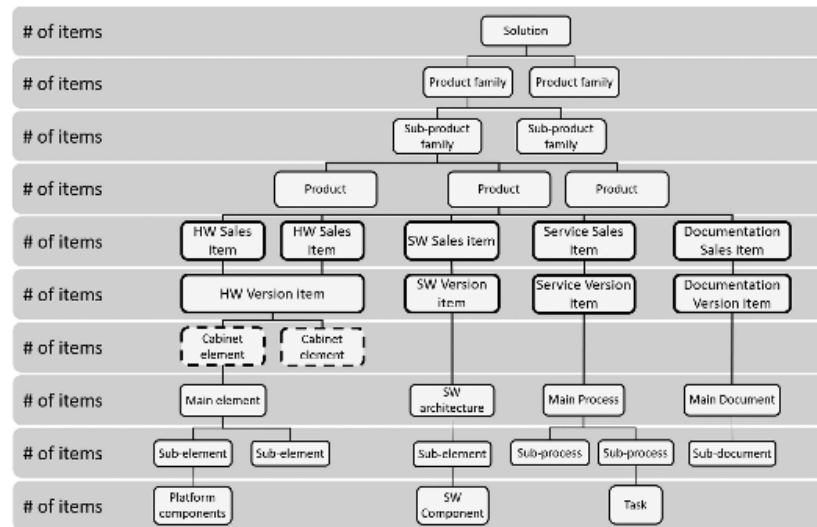
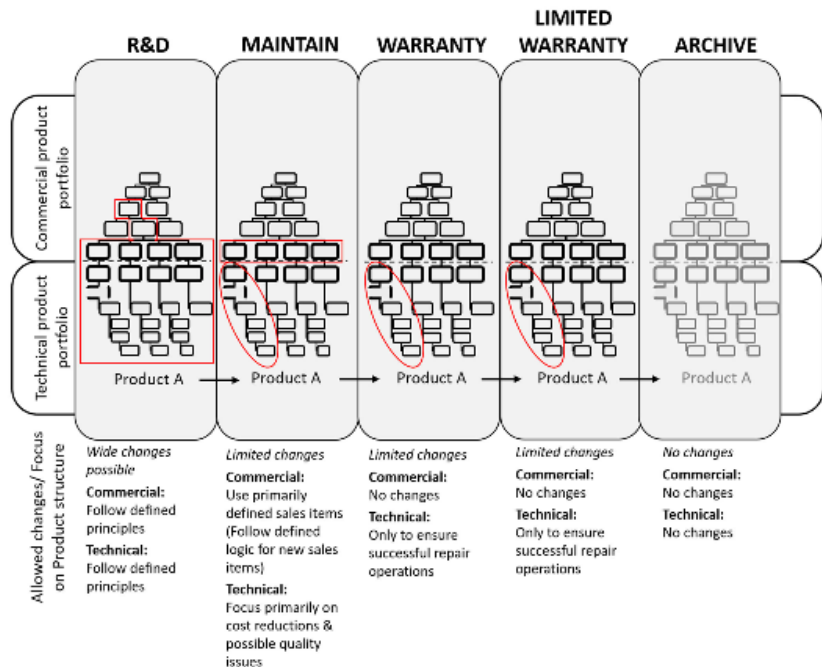


Fig. 5. PPM targets and KPIs for the size of commercial and technical portfolios.

## 檢索範例4：檢索關於“虛擬現實技術在PTSD治療中的應用”的研究成果

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查詢：  
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索引項目： 關鍵詞 (kw:)

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檢索 清除

PTSD是英文簡稱，全名為  
**Post-traumatic stress disorder**

虛擬現實技術的英文簡稱為VR  
，全名為**Virtual Reality**

使用 **索引代碼, (), OR 及 AND**  
等組合條件較為適合

## 檢索範例4：檢索關於“虛擬現實技術在PTSD治療中的應用”的研究成果

查詢：

kw:Virtual Reality



檢索方式是 檢索索引代碼 + 檢索字串

**kw:Virtual Reality**

查詢：

(kw:Virtual Reality) OR (kw:VR)



二組或以上的檢索方式，只需要符合任何一組  
每組檢索方式前後加上( )

**(kw:Virtual Reality)**

**(kw:VR)**

使用 **OR** 把二組檢索方式串連起來

查詢：

((kw:Virtual Reality) or (kw:VR)) AND ((kw:PTSD) or  
(kw:Post-traumatic stress disorder))



另一組的 **PTSD** 的情況與**VR** 相同，所以檢索方式一樣

由於**PTSD**與**VR**必須在檢索結果同時出現，所以它們之間用**AND**方式來串連

# 檢索範例4：檢索關於“虛擬現實技術在PTSD治療中的應用”的研究成果

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- 2. [Future Directions in Post-Traumatic Stress Disorder \[electronic resource\] : Prevention, Diagnosis, and Treatment / edited by Marilyn P. Safir, Helene S. Wallach, Albert "Skip" Rizzo.](#)  
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- 4. [Virtual reality exposure-based therapy for the treatment of post-traumatic stress disorder: a review of its efficacy, the adequacy of the treatment protocol, and its acceptability](#)  
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# 檢索範例4：檢索關於“虛擬現實技術在PTSD治療中的應用”的研究成果

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著者: Oliveira, F. M.; Lanzillotti, R. S.; Da Costa, R. M. E. M.; Gonçalves, R.; Ventura, P.; Carvalho, L. A. V. de

出版: Càtedra d'Accessibilitat (CATAC)

語種: 英語; English

摘要: This paper describes the main characteristics of two integrated systems that explore **Virtual Reality** technology and Fuzzy Logic to support and to control the assessment of people with **Post-Traumatic Stress Disorder** during the **Virtual Reality** Exposure Therapy. The integration of different technologies, the development methodology and the test procedures are described throughout the paper. Peer Reviewed

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# 檢索範例4：檢索關於“虛擬現實技術在PTSD治療中的應用”的研究成果

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### Abstract

This paper describes the main characteristics of two integrated systems that explore Virtual Reality technology and Fuzzy Logic to support and to control the assessment of people with Post-Traumatic Stress Disorder during the Virtual Reality Exposure Therapy. The integration of different technologies, the development methodology and the test procedures are described throughout the paper.

**Citation:** Oliveira, F. M.; Gonçalves, R.; Ventura, P. A virtual reality exposure therapy for PTSD patients controlled by a fuzzy logic system. "Journal of accessibility and design for all", Juliol 2014, vol. 4, núm. 2, p. 117-129.

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*Journal of Accessibility and Design for All*

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### **A VIRTUAL REALITY EXPOSURE THERAPY FOR PTSD PATIENTS CONTROLLED BY A FUZZY LOGIC SYSTEM**

F. M. de Oliveira<sup>1</sup>, R. S. Lanzillotti<sup>1</sup>, R. M. E. M. da Costa<sup>1</sup>, R. Gonçalves<sup>2</sup>, P. Ventura<sup>2</sup>, L. A. V. de Carvalho<sup>3</sup>

(1) Pós-Graduação em Ciências Computacionais, Universidade do Estado do Rio de Janeiro, (Rio de Janeiro), Brazil.

(2) Instituto de Psiquiatria, Universidade Federal do Rio de Janeiro, (Rio de Janeiro), Brazil.

(3) COPPE, Universidade Federal do Rio de Janeiro, (Rio de Janeiro), Brazil.

[fernando@ime.uerj.br](mailto:fernando@ime.uerj.br), [reginalanzillotti@terra.com.br](mailto:reginalanzillotti@terra.com.br), [rcosta@ime.uerj.br](mailto:rcosta@ime.uerj.br), [mgoncalves.raquel@gmail.com](mailto:mgoncalves.raquel@gmail.com), [paularventura@uol.com.br](mailto:paularventura@uol.com.br), [luisalfredo@ufirj.br](mailto:luisalfredo@ufirj.br)

### **PTSD Treatment**

PTSD involves a constant sense of fear generated by the improper consolidation of autobiographical memory of the trauma (Brewin, Dalgleish & Joseph, 1996). People with PTSD can not adapt back to their usual life. Thus, a re-reading of the environment they live in will be fundamental to reorganize the experienced situations.

In recent years, different theoretical and practical approaches have been explored to assess and rehabilitate cognitive processes such as visual perception, attention and memory, as well as training the motor skills (Ready, Pollack & Rothbaum, 2006). The Cognitive-Behavioral Therapy (CBT) is considered a good option for Post-traumatic Stress Disorder (PTSD) treatment. In general, it is performed by exploring techniques that include Psycho Education, Cognitive Restructuring Techniques, Anxiety Management, Imaginary Exposure and Live Exposure. Its aim is to break the cycle of symptoms leading to a habituation of stimuli. Moreover, it attempts to develop relaxation skills, enabling the patients' control of their emotional and physiological response in order to decrease their reaction when faced with stressful situations.



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