Artificial Intelligence (AI) Standard

Internal

BSI Thailand

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Discussion items

ความ สำคัญ และ ประเด็น ของ AI (Artificial Intelligence) ในปัจุบัน

What is AI (Artificial Intelligence) Management System (ISO/IEC 42001)

Combine ISO/IEC 42001 with other management system and updated status



 ความ สำคัญ และ ประเด็น ของ AI (Artificial Intelligence) ในปัจุบัน

Internal

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สร้างสรรค์งานเขียน

สามารถช่วยในการเขียนบทความ เรื่องสั้น บทกวี เขียนโค้ดโปรแกรม เขียนงานวิจัย หรือแม้แต่การแต่งเพลง ที่เราสามารถบอกเนื้อหาและสไตล์ ลงไปได้ด้วย

รวบรวมข้อมูล

เก็บรวบรวมจากหลายแหล่งข้อมูลทั่วโลก เช่น Website E-book หรือ Wikipedia มาประมวลผลเป็นคำตอบในรูปแบบ ของตัวเองได้

PETROMAT

ปรึกษาปัญหาชีวิต

สามารถแนะนำได้ทุกปัญหาชีวิต ดั้งแต่การรับมือกับความเครียด คำแนะนำหลังจากอกหัก วิธีก้าวออกจาก Friend Zone เป็นต้น

ช่วยเขียนโปรแกรม

สามารถเขียนโปรแกรมได้ โดยใช้ภาษาโปรแกรม เช่น JavaScript, Python และยังดรวจสอบ ข้อบกพร่องได้อีกด้วย

ตอบคำถามความรู้รอบตัว

การตอบคำถามของ ChatGPT จะแตกด่างกับ Google ตรงที่ว่า จะคล้ายกับตอนอยู่ในห้องเรียน ที่เราสามารถยกมือถามเพิ่มเติม หรือขอให้ขยายความส่วนที่ไม่เข้าใจ ได้ทันที

ChatGPT สามารถทำอะไรได้บ้าง ?

ช่วยสร้างแนวคิดใหม่

เสมือนเป็นผู้ช่วยส่วนตัว เช่น แนวคิด ในการเลือกของขวัญปีใหม่ การสร้าง เนื้อหาอย่างไรให้เป็นที่น่าสนใจ ไปจนถึงสามารถแนะนำเมนูอาหาร ที่ดีต่อสุขภาพให้เรา

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From -https://petromat.org/home/chatgpt-ai-chatbot/

Checklist กันลืม

เสมือนเป็นผู้ช่วยคอยเตือนความจำ

สิ่งที่ต้องเตรียมก่อนไปต่างประเทศ

สิ่งที่ต้องเตรียมก่อนเปิดร้านขายสินค้า สิ่งที่ต้องเตรียมก่อนไปเที่ยวสถานที่ต่าง ๆ

ก่อนเราจะท้ำกิจกรรม เช่น



https://globthailand.com/china-26092019/

รถยนต์ไร้คนขับ อนาคตอัน...ใกล้ หรือ...อีกไกล?

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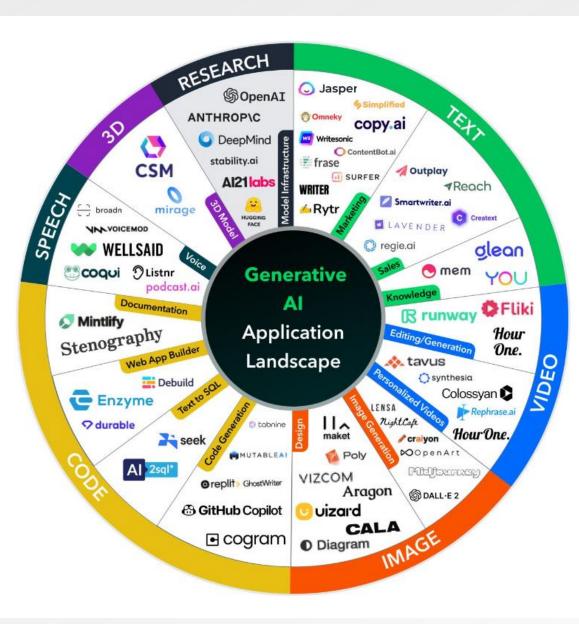
21 พ.ค. 2020





https://www.scglogistics.co.th/th

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From - https://www.rapidops.com/blog/generative-ai-tools/

 What is AI (Artificial Intelligence) Management System (ISO/IEC 42001)

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• Overview artificial intelligence (AI) requirements

BS ISO/IEC 42001 Information Technology - Artificial intelligence Management system – <u>**14 November 2022 - 22/30426041 DC**</u>



For organization Providing or Using Product or service that utilized AI system

Management System requirement same as ISMS requirement – 4-10 and Annex A control objective and control

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 Overview Artificial BS ISO/IEC 42001 Information Technology -Artificial intelligence Management system

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- Intended for use by organization Providing or Using Product or service that utilized AI system
- Help organization develop or use AI system responsibly in pursuing its objectives, and meet applicable regulatory requirement, obligations related to interested parties and expectation from them

 Applicable for any organization provided or used products or services that utilized AI system

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BS ISO/IEC 42001 Information Technology - Artificial intelligence Management system - <u>14 November 2022 - 22/30426041 DC</u>

• Requirement 4-10 PDCA framework, Management system

- Annex A Control objective and control
- Annex B Implement Guide for AI control
- Annex C Potential AI Related organizational objectives and risk sources
- Annex D Use of AI management system across domain or sectors

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BS ISO/IEC 42001 Information Technology - Artificial intelligence Management system

4 Context of the organization

- 4.1 Understanding the organization and its context
- 4.2 Understanding the needs and expectations of interested parties
- 4.3 Determining the scope of the AI management system
- 4.4 AI management system

5 Leadership

- 5.1 Leadership and commitment
- 5.2 AI Policy
- 5.3 Organizational roles, responsibilities and authorities

6 Planning

- 6.1 Actions to address risks and opportunities
 - 6.1.1 General
 - 6.1.2 AI risk assessment
 - 6.1.3 AI risk treatment
 - 6.1.4 AI System Impact assessment
- 6.2 AI objectives and planning to achieve them
- 6.3 Planning of changes

7 Support

- 7.1 Resources
- 7.2 Competence
- 7.3 Awareness
- 7.4 Communication
- 7.5 Documented information

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8 Operation

- 8.1 Operational planning and control
- 8.2 AI risk assessment
- 8.3 AI risk treatment
- 8.4 AI System Impact Assessment

9 Performance evaluation

- 9.1 Monitoring, measurement, analysis and evaluation
- 9.2 Internal audit
- 9.3 Management review

10 Improvement

- 10.1 Continual improvement
- 10.2 Nonconformity and corrective action

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Annex A (normative)

Reference control objectives and controls

A.1 General

The controls detailed in Table 1.1 provide the organization with a reference for meeting organizational objectives and addressing risk related to the design and operation of A. cystems. Not all the control objectives and controls listed in Table A 1 are required to be used, and the organization can design and implement their own controls (see Clause 5.1.3).

Annex B provides implementation guidance for all the controls listed in Table A.1. The first column in Table A.1 provides the crocs-reference for a specific clause in Annex B.

Table A 1 - Control objectives and concrols

B.2 Policies related to A.

Objective: To provide management direction and support for AI systems according to business requirements and applicable legal obligations (including contractual obligations *j*.

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B.2.2	AI policy	Control The organization shall document a policy for the development or use of AI systems.
B.2.3	Alignment with other organizational policies	Control The organization shall determine where other policies can be affected by or apply to, the organization's objectives with respect to AI systems.
B.2.4	Review of the AI policy	Control The AI policy shall be reviewed at planned intervals or additionally as needed to ensure its continuing suitability, adequacy and effectiveness.

B.3 Internal organization

Objective: To establish accountability within the organization to uphold its responsible approach for the implementation, operation and management of AI systems.

B.3.2	AI roles and responsibilities	Control
		Roles and responsibilities for AI shall be defined and allocated according to the needs of the organization.
B.3.3	Reporting of concerns	Control
		The organization shall define and put in place a process for employees of the organization to report concerns about the organization's role with respect to an AI system throughout its life cycle.



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	B.4 Resources	s for AI systems		B.5 Assessing impacts of AI systems			
	Objective: To ensure that the organization accounts for the resources (including AI system components and assets) of the AI system in order to fully understand and address risks and impacts.		Objective: To assess system impacts to interested parties of the AI system throughout its life cycle.				
	B.4.2	Resource documentation	Control	B.5.2		AI system impact assessment process	
			The organization shall identify and document relevant resources required for the activities at given Al system life cycle stages and other Al-related				The organization shall assess the potential consequences for individuals and societies that would result from the development or use of AI systems.
C			activities relevant for the organization.	B.5.3		Documentation of AI system	Control
	B.4.3	Data resources	Control			impact assessments	The organization shall document the results of AI system impact assessments and retain results for a
			As part of resource identification, the organization shall document information about the data resources				defined period.
			utilized for the AI system.	B.5.4		Assessing AI system impact on	Control
	B.4.4	Tooling resources	Control			individuals and groups of individuals	The organization shall assess and document the
			As part of resource identification, the organization shall document information about the tooling resources utilized for the AI system.				potential impacts of AI systems to individuals or groups of individuals throughout the system's life cycle.
	B.4.5	System and computing resources		B.5.5		Assessing societal impacts of AI	Control
			As part of resource identification, the organization shall document information about the system and computing resources utilized for the AI system.			systems	The organization shall assess and document the potential societal impacts of their AI systems throughout their life grade.
	B.4.6	Human resources	Control				throughout their life cycle.
			As part of resource identification, the organization shall document information about the human resources utilized for the development, deployment and operation of the AI system.				

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B.6 AI system	life cycle	
	ensure that the organization is the responsible design and develo	dentifies and documents objectives and implements opment of AI systems.
B.6.1 Manage	ment guidance for AI system deve	lopment
B.6.1.2	Objectives for responsible	Control
	development of AI system	The organization shall identify and document objectives to guide the development of trustworthy AI systems, and take those objectives into account and integrate measures to achieve them in the development life cycle.
B.6.1.	Processes for trustworthy AI system design and development	Control The organization shall define and document the specific processes for the design and development of the AI system.

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B.6.2 Al syste	m development life cycle	
B.6.2.2	Al system requirements and specification	Control The organization shall specify and document requirements for new AI systems or material enhancements to existing systems.
B.6.2.3	Documentation of AI system design and development	Control The organization shall document the AI system design and development based on organizational objectives, documented requirements and specification criteria.
B.6.2.4	AI system verification and validation	Control The organization shall define and document verification and validation measures for the AI system and specify criteria for their use.
B.6.2.5	AI system deployment	Control The organization shall document a deployment plan and ensure that appropriate requirements are met prior to deployment.
B.6.2.6	AI system operation and monitoring	Control The organization shall define and document the necessary elements for the ongoing operation of the AI system. At the minimum this should include system and performance monitoring, repairs, updates and support.
B.6.2.7	Al system technical documentation	Control The organization shall determine what AI system technical documentation is needed for each relevant category of interested parties, such as users, partners, supervisory authorities, and provide the technical documentation to them in the appropriate form.
B.6.2.8	Al system recording of event logs	Control While the AI system is in operation, automatic record keeping of event logs should be enabled when necessary.

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	B.7 Data for A	l systems	
Objective: To ensure that the organization understation the application and development, provision or use of			erstands the role and impacts of data in AI systems in use of AI systems through their life cycles.
	B.7.2	Data for development and enhancement of AI system	Control The organization shall define, document and implement data management processes related to the development of AI systems.
	B.7.3	Acquisition of data	Control
			The organization shall determine and document details about the acquisition and selection of the data used in AI systems.
	B.7.4	Quality of data for AI systems	Control
			The organization shall define and document requirements for data quality and ensure that data used to develop and operate the AI system meet those requirements.
	B.7.5	Data provenance	Control
			The organization shall define and document a process for verifying and recording the provenance of data used in its AI systems over the life cycles of the data and the AI system.
	B.7.6	Data preparation	Control
			The organization shall define and document their needs for and approaches to data preparation.

B.8 Information for interested parties of AI systems		
	ensure that relevant interested j e risks and their impacts (both po	parties have the necessary information to understand sitive and negative).
B.8.2	System documentation and information for users	Control
		The organization shall determine and provide the necessary information to users of the system.
B.8.3	Understandability of provided	Control
		Information provided to interested parties shall be clear, understandable and appropriate for them.
B.8.4	External reporting	Control
		The organization shall provide capabilities for reporting adverse impacts of the system.
B.8.5	Communication of incidents	Control
		The organization shall determine and document a plan for communicating incidents to users of the system.
B.8.6	Information for interested	Control
	parties	The organization shall determine and document their obligations to reporting information about the AI system to interested parties.

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B.9 Use of AI systems		
Objective: To	ensure that the organization uses	AI responsibly and per organizational policies.
B.9.2		Control
	of Al	The organization shall define and document the processes for the responsible use of AI systems.
B.9.3	[Control
	of AI system	The organization shall identify and document objectives to guide the responsible use of AI systems.
B.9.4	Intended use of the AI system	Control
		The organization shall ensure that the AI system is used according to the intended uses of the AI system and its accompanying documentation.

B.10 Third party relationships

Objective: To ensure that, when third parties are involved at any stage of the AI system life cycle, the organization understands its responsibilities and remains accountable for these, while being able to assess and mitigate the risk of reliance on third parties for responsibilities allocated to them and enable third parties to assess and treat the risks related to reliance on AI products and services developed by the organization.

B.10.2	Allocating responsibilities	Control
		The organization shall ensure that responsibilities within their AI system life cycle are allocated between the organization, its partners, suppliers, customers and third parties.
B.10.3	Suppliers	Control
		The organization shall ensure that its suppliers commit to a responsible approach to the development of AI systems.
B.10.4	Customers	Control
		The organization shall ensure its responsible approach to the development of AI systems considers their customer expectations and needs.

Annex C – Potential AI – Related organizational objectives and risk sources

Objective and risk sources as ISO/IEC 23894 Information technology — Artificial intelligence — Guidance on risk management

Objective:

- Fairness
- Security
- Safety
- Privacy
- Robustness
- Transparency and Explainability
- Accountability
- Availability
- Maintainability
- Availability and quality of training data
- Al expert

Annex C – Potential AI – Related organizational objectives and risk sources

Objective and risk sources as ISO/IEC 23894 Information technology — Artificial intelligence — Guidance on risk management

Risk sources:

- Level of automation
- Lack of transparency and explainability
- Complexity of environment
- System life cycle issues
- System hardware issues
- Technology readiness
- Risk sources related to machine learning



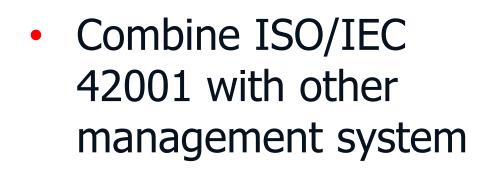
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Annex D – Use of AI management system across domain or sectors

- Applicable to any organization providing or using product or service that utilize AI System
- Integration of AI management system
 with other management system standard
 Example ISO/IEC 27001, ISO/IEC
 27701, ISO 9001
- Certification scheme



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Combine ISO/IEC 42001 with other management system and updated status

From Annex D

- ISO/IEC 42001 can be certified in organization
- ISO/IEC 42001 can be integrated, combined in other management

ISO/IEC 42001 - Now

- ISO/IEC FDIS 42001 Information technology — Artificial intelligence — Management system







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Internal