

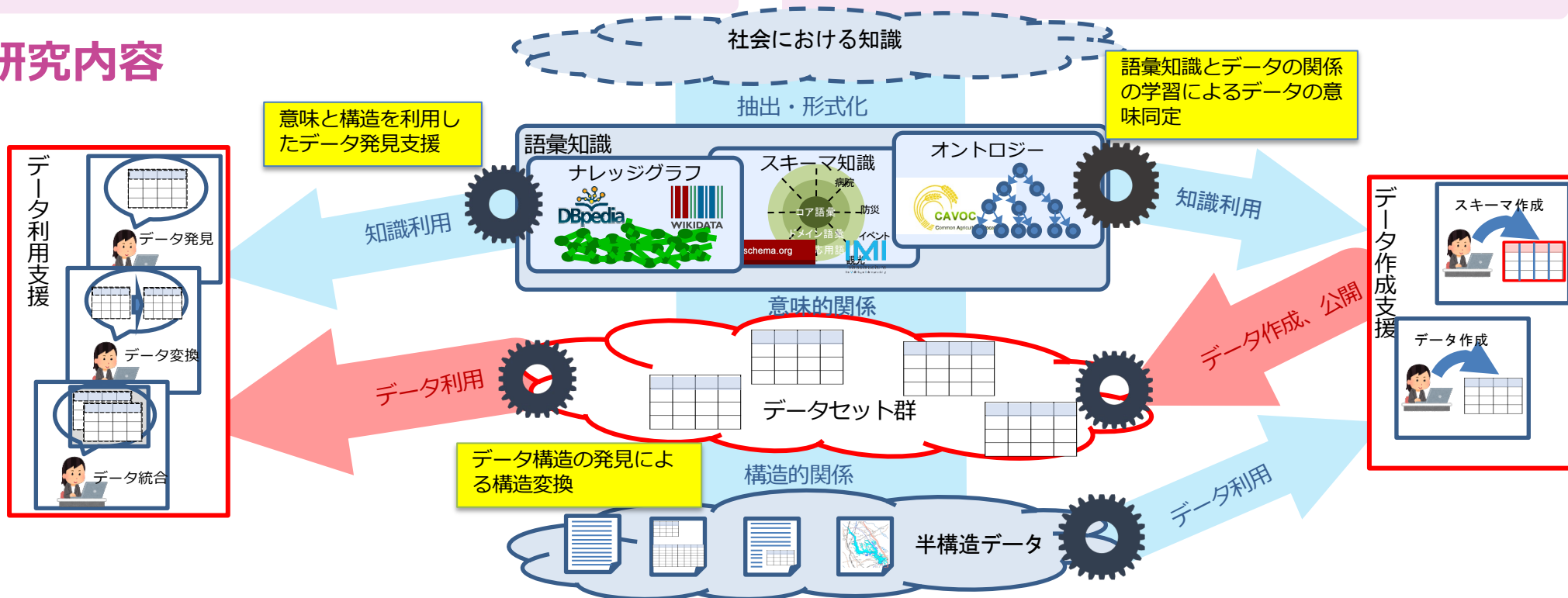
どんな研究？

さまざまな分野のデータを組み合わせて活用するのを支援する基盤技術の研究をしています。各種データを表すのに便利でコンピュータで処理しやすい表形式データを対象に、必要なデータを探し、必要に応じて形式変換をし、知識グラフと対応づけることで、データの意味同定を行います。

なにができる

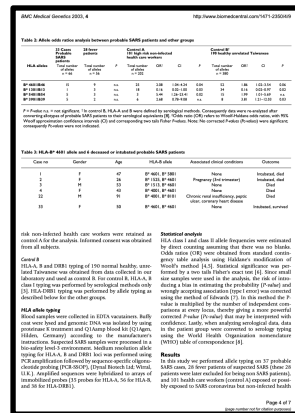
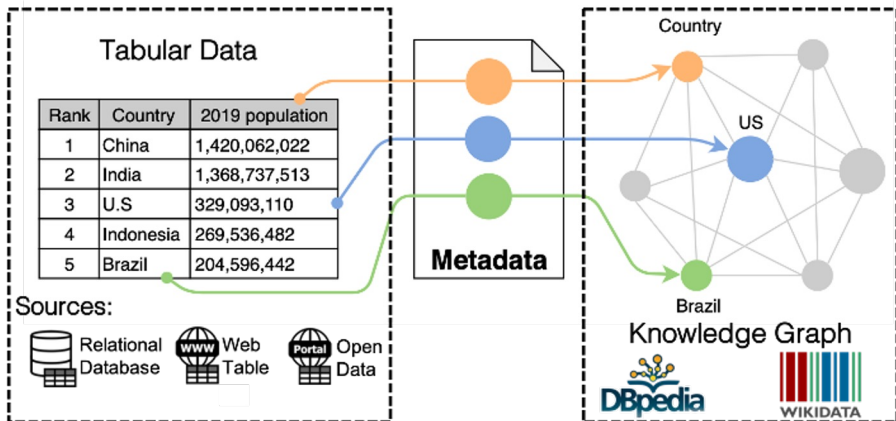
異なる組織で作成されるデータには、データ構造や形式などさまざまな点で異なることが多く、データの利活用に適したデータに整えるのには大きなコストがかかります。本研究では、そのコストを低減するための技術とシステムの研究に取り組んでいます。

研究内容



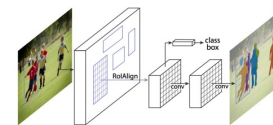
MTab: semantic annotator

Table Extractor



- Component extraction
- Classification

Mask R-CNN



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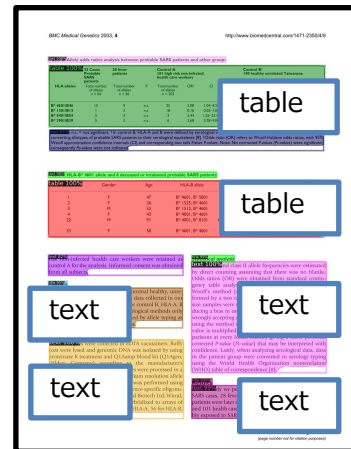
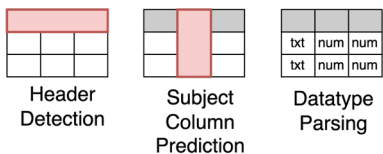


Table Recognizer

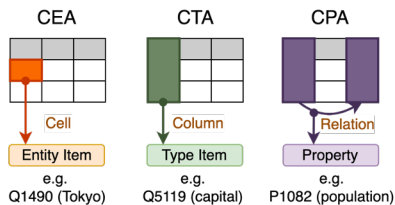
Table format



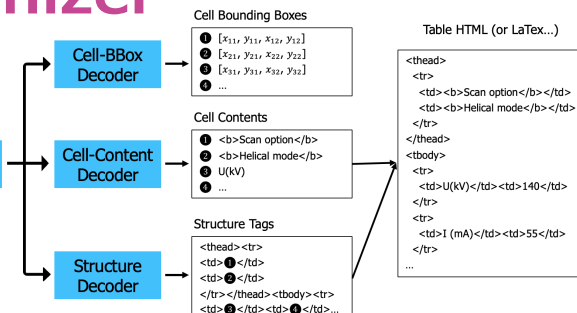
Structural Annotation



Semantic Annotation



Scan options	Heuristic mode
U (width)	140
I (mA)	55
(s)	5
N (width)	50
TF (mm)	10.0
TR (mm)	1.3
P	0.5



ID #	Sex	Age (years)	Use	Pathology
1	M	8 months	ICC	Parieto-Occipital-Frontal cortical dysplasia, Right Hemispherectomy
2	F	49	ICC	Temporal Lobe Epilepsy, Hippocampal atrophy
3	F	10	ICC	Temporal Lobe Epilepsy, Hippocampal atrophy
4	F	13	ICC	Cortical Dysplasia, Right Hemispherectomy
5	M	7	ICC	Cortical Dysplasia, Right Hemispherectomy
6	F	4	ICC	Right Frontoparietal Epilepsy
7	M	1	ICC	Left Frontal Lobe Epilepsy
8	M	25	ICC	Right Temporal Lobe Epilepsy
9	M	45	TOX, ICC	Temporal Lobe Epilepsy
10	F	4	TOX, ICC	Cortical Dysplasia
11	M	16	TOX, ICC	Temporal Lobe Epilepsy
12	M	24	UP	Left Frontal Lobe Epilepsy
13	F	14	UP	Cortical Dysplasia
14	F	17	UP	Left Temporal/Frontoparietal Epilepsy

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Table image with detected cell bounding boxes

Predicted Table HTML (view on Web browser)

GitHub: https://github.com/phucy/mtab_tool
 APIs and Demo: <http://mtab.kgraph.jp>

