



TOYOTA MR-S (SW30) S-Limited Ver. TOUGE

id:yamaguchiintl

IF Reasoning

Agenda

- Presenter Profile
- Reasoning
- Conclusion

Presenter Profile

- ID:yamaguchiintlab
- WORK:Research and Education
 - Associate:Toin University of Yokohama
 - Title:Assistant Professor
- FIELD: Multiagent, Software Engineering, Emergence, Intelligent Information...

Today's Keyword

- Japanese : もし [Hiragana]
- Japanese : モシ [Katakana]
- Japanese : moshi [Roman Style]
- English : if, reason

if(){}else{}, IF - THEN

- C, C++, Java, sh, PHP, Ruby, Perl, Fortran, Pascal, COBOL, BASIC, awk, Prolog, Etc...
- SQL => SELECT
- Assembler, Smalltalk => None

Predicate Logic

- IF - THEN

- if $S1$ then $s2$

- AND

- OR

- NOT

$s1$	$s2$	if $s1$ then $s2$
TRUE	TRUE	TRUE
TRUE	FALSE	FALSE
FALSE	TRUE	FALSE
FALSE	FALSE	TRUE

Reasoning

- Deduction
- Induction
- Abduction

$$\begin{array}{l} A \\ A \rightarrow B \\ \hline B \end{array}$$

$$\begin{array}{l} A, B \\ \hline A \rightarrow B \end{array}$$

$$\begin{array}{l} B \\ A \rightarrow B \\ \hline A \end{array}$$

Reasoning::Abduction

- @yamaguchiintlab
- せんせい (Teacher)
- 無茶ぶり (Absurd)


Reasoning::Abduction

- 全裸
- 全裸bot
- @sugyan

Reasoning::Abduction

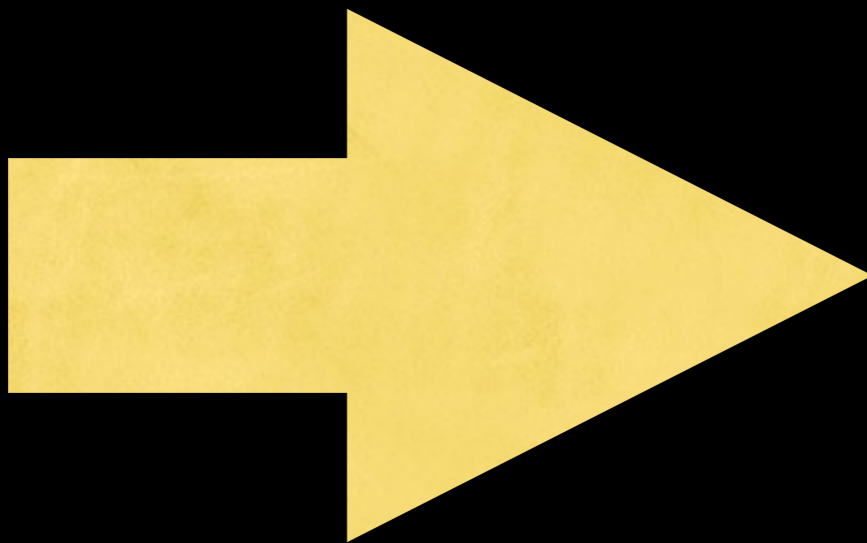
- atcorp or @atcorp
- つかだ (Tsukada)
- Modeling

Reasoning::Abduction

参加者 ⁺ 

司会・進行 ⁺ 

- georz (a.k.a. 銀河一の司会者)



17	mochiko	スタッフ (猫用)
18	georz	スタッフ (汎用)
19	さとうようぞう	スタッフ (雑用)
20	ymtm (やまとも)	スタッフ (写真係)

Reasoning::Abduction

- Navigator @georz
- Galaxy **NO.1**
- Not General Purpose

Conclusion

- if (IF-THEN)
 - Use Computer Language
- Reasoning (Predicate Logic)
 - Three Theory Relationship

Thank you
id:yamaguchiintlab