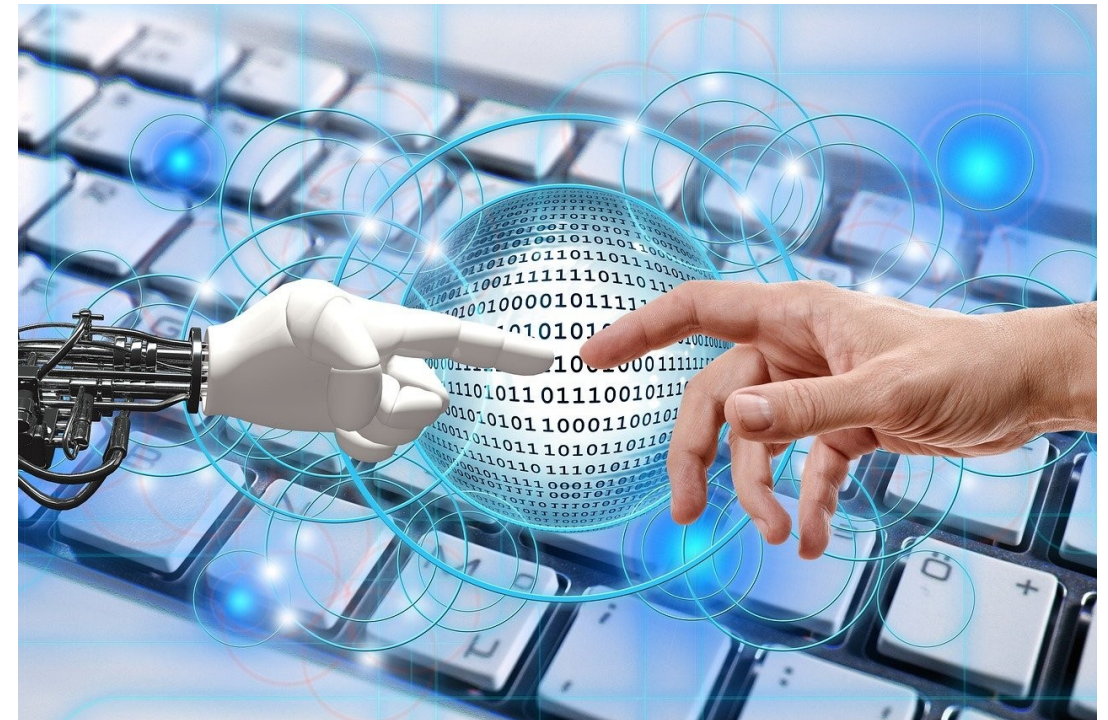b-it

Tutorial 04

Prof. Dr. Teena Hassan

teena.hassan@h-brs.de

Ritwik Sinha

ritwik.sinha@smail.inf.h-brs.de

Department of Computer Science

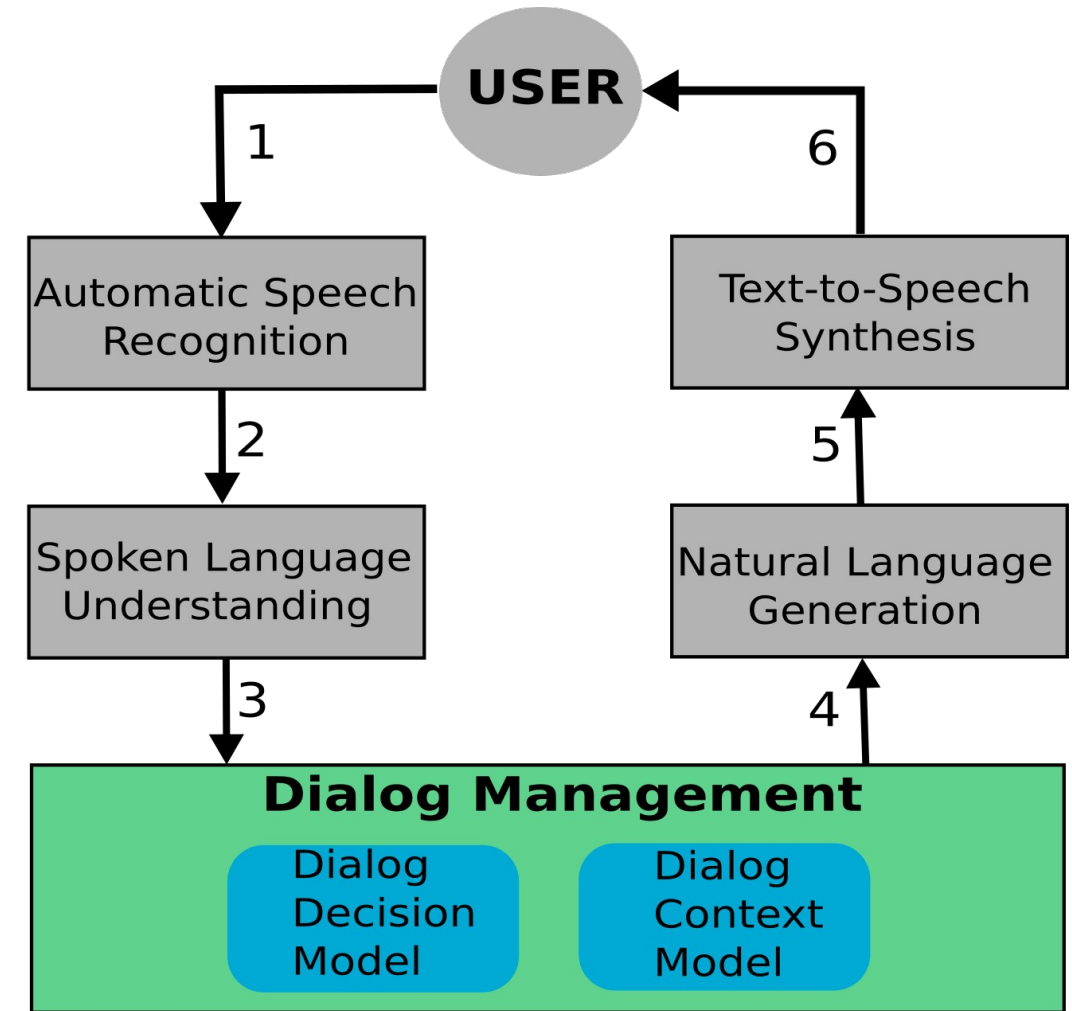Hochschule Bonn-Rhein-Sieg

Sankt Augustin

2nd May 2024

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Content

- RASA NLU: Installation and Trial

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RASA NLU: Installation and Trial

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Rasa: NLU and Dialog Management

- Rasa Open Source:
  - https://rasa.com/docs/rasa/
  - Version 2.0 with Python3.6
  - Version 3.0 with Python3.8

- Free hands-on course on Udemy to build your first Rasa assistant:
  - https://www.udemy.com/course/rasa-for-beginners/

Recreation of Fig. 1 in (Cañas et al., 2021)

Tutorial 4: RASA NLU: Installation and Trial

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Rasa Open Source – Getting Started

- Create a project
- Create training data
  - data/nlu.yml
  - data/stories.yml
  - data/rules.yml
- Validate training data
  - rasa data validate
- Train models
  - rasa train [nlu | core]

- Start actions
  - rasa run actions
- Start shell
  - rasa shell
- Tests
  - Specify stories under tests/ to test specific dialog flow.

```
2022-05-10 13:37:05 INFO     root  - Rasa server is up and running.
Bot loaded. Type a message and press enter (use '/stop' to exit):
Your input ->  hi
Hey! How are you?
Your input ->  I am sad
Here is something to cheer you up:
Image: https://i.imgur.com/nGF1K8f.jpg
Did that help you?
Your input ->  yes
Great, carry on!
Your input ->  are you a bot?
I am a bot, powered by Rasa.
Your input ->  what is your name?
My name is Innovate Yourself.
What is your name?
Your input ->  My name is Marie
```

Source project: https://github.com/ashus3868/RasaOpenSource2

Tutorial 4: RASA NLU: Installation and Trial

Rasa Open Source – Example Projects

- Example projects
  - RasaOpenSource2.0 Example:
    - https://github.com/ashus3868/RasaOpenSource2
  - Sara - the Rasa Demo Bot:
    - https://github.com/RasaHQ/rasa-demo
  - Rasa for Beginners wellness-check-bot
    - https://github.com/RasaHQ/rasa-for-beginners/tree/2-0-migration

- Some tips on extracting person names:
  - https://forum.rasa.com/t/how-to-extract-person-names-from-user-input/34901

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Tutorial 4: RASA NLU: Installation and Trial

References

- Pablo **Cañas**, David Griol, Zoraida Callejas,
  "Towards versatile conversations with data-
  driven dialog management and its integration in commercial platforms",
  Journal of Computational Science, Volume 55, 2021.

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Thank you!

- For any queries:
    - LEA Forum
    - email to ritwik.sinha@smail.inf.h-brs.de