

PSI3542 – 2023

SISTEMAS EMBARCADOS PARA IOT

AULA 02 – ATIVIDADE 02

SERGIO TAKEO KOFUJI

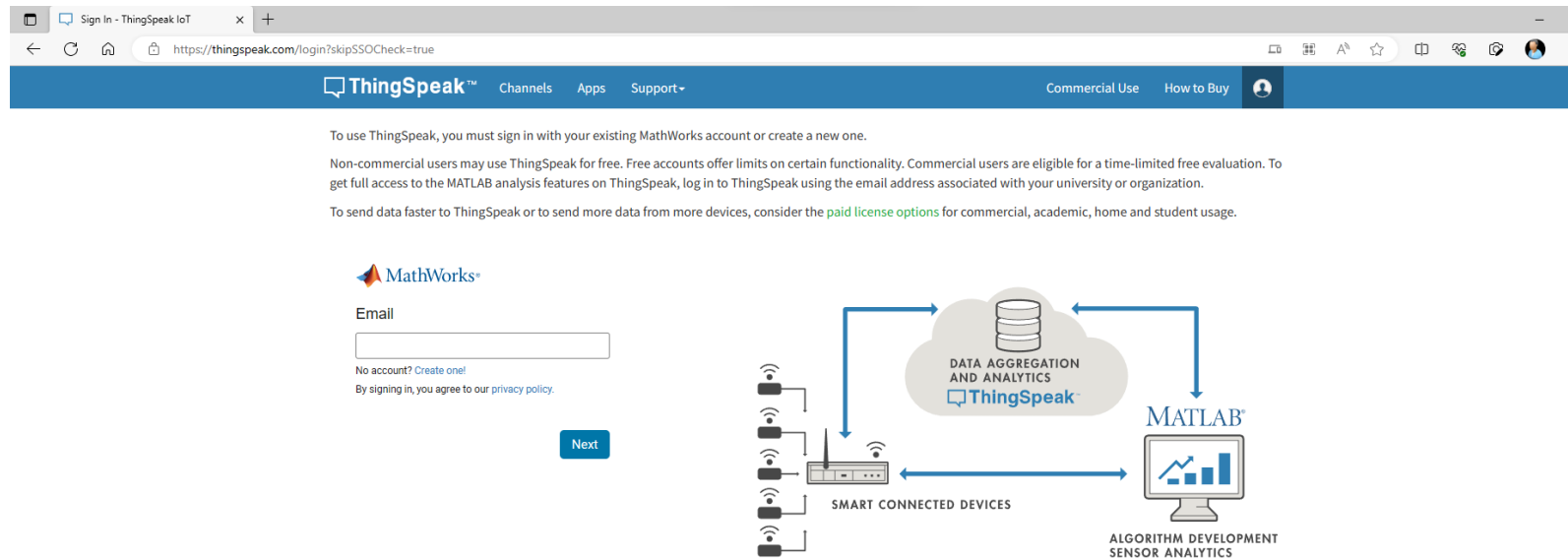
KOFUJI@USP.BR

ATIVIDADES

- ATIVIDADE 2.1
 - PROCESSAMENTO DE PONTO DE ORVALHO (DEW POINT)
- ATIVIDADE 2.2
 - ENVIO DE DADOS AO THINGSPEAK VIA MQTT

OBTER UMA CONTA NO THINGSPEAK

- <https://thingspeak.com/login?skipSSOCheck=true>



The screenshot shows the ThingSpeak login page in a browser. The URL is <https://thingspeak.com/login?skipSSOCheck=true>. The page features a blue navigation bar with the ThingSpeak logo and links for Channels, Apps, Support, Commercial Use, and How to Buy. Below the navigation bar, there is a sign-in form with an email input field and a "Next" button. To the right of the form is a diagram illustrating the ThingSpeak architecture. The diagram shows "SMART CONNECTED DEVICES" on the left, which send data to a central cloud labeled "DATA AGGREGATION AND ANALYTICS ThingSpeak". This cloud is connected to a "MATLAB" computer icon on the right, which is labeled "ALGORITHM DEVELOPMENT SENSOR ANALYTICS".

To use ThingSpeak, you must sign in with your existing MathWorks account or create a new one.

Non-commercial users may use ThingSpeak for free. Free accounts offer limits on certain functionality. Commercial users are eligible for a time-limited free evaluation. To get full access to the MATLAB analysis features on ThingSpeak, log in to ThingSpeak using the email address associated with your university or organization.

To send data faster to ThingSpeak or to send more data from more devices, consider the [paid license options](#) for commercial, academic, home and student usage.

MathWorks

Email

No account? [Create one!](#)
By signing in, you agree to our [privacy policy](#).

Next

DATA AGGREGATION AND ANALYTICS
ThingSpeak

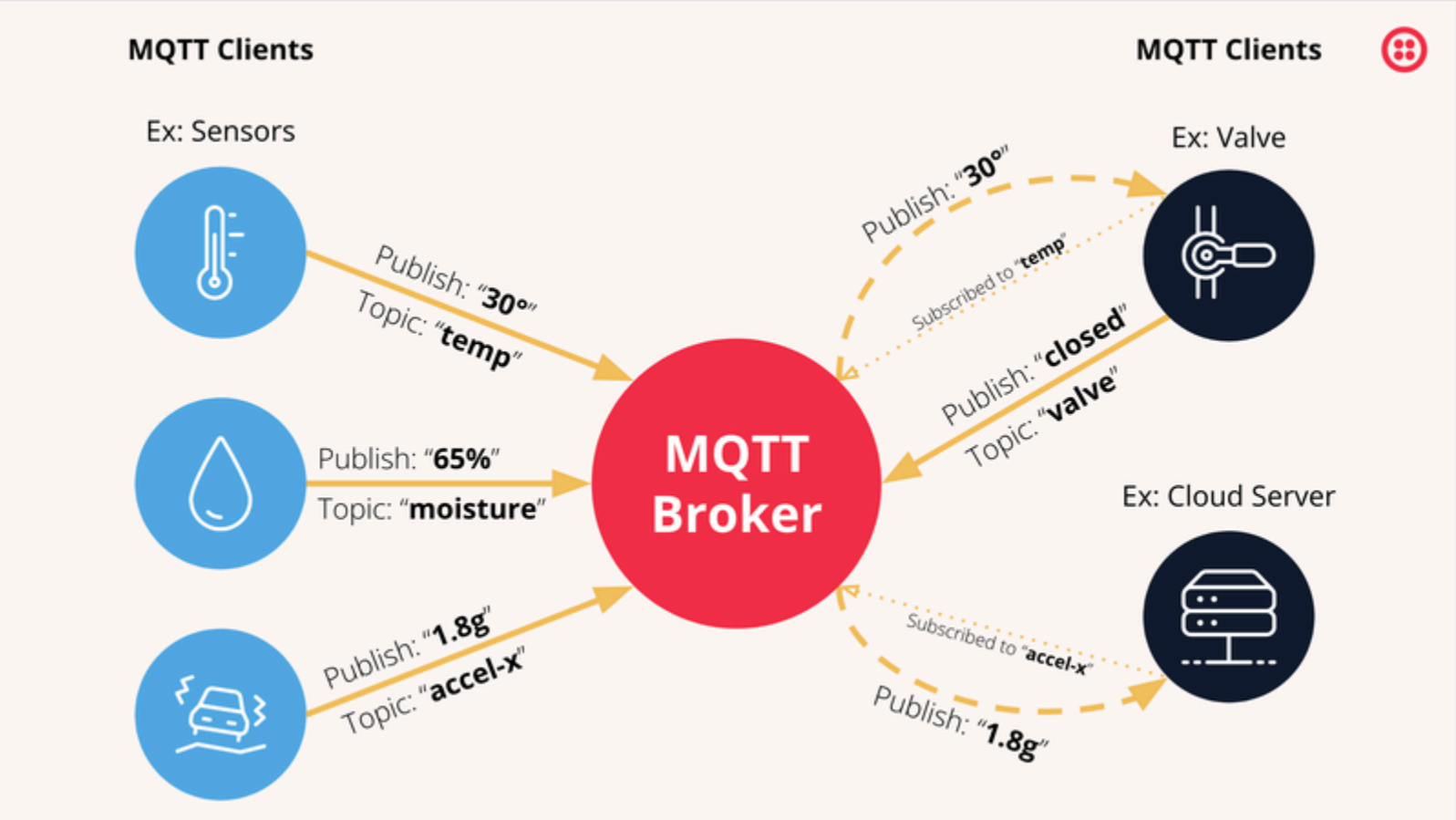
MATLAB

SMART CONNECTED DEVICES

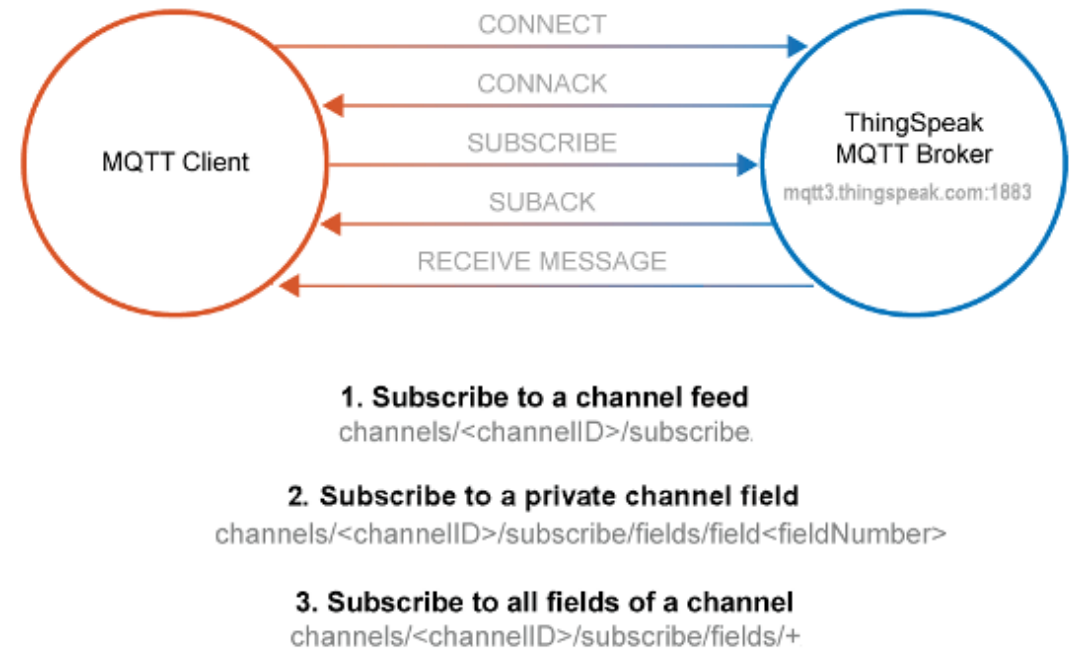
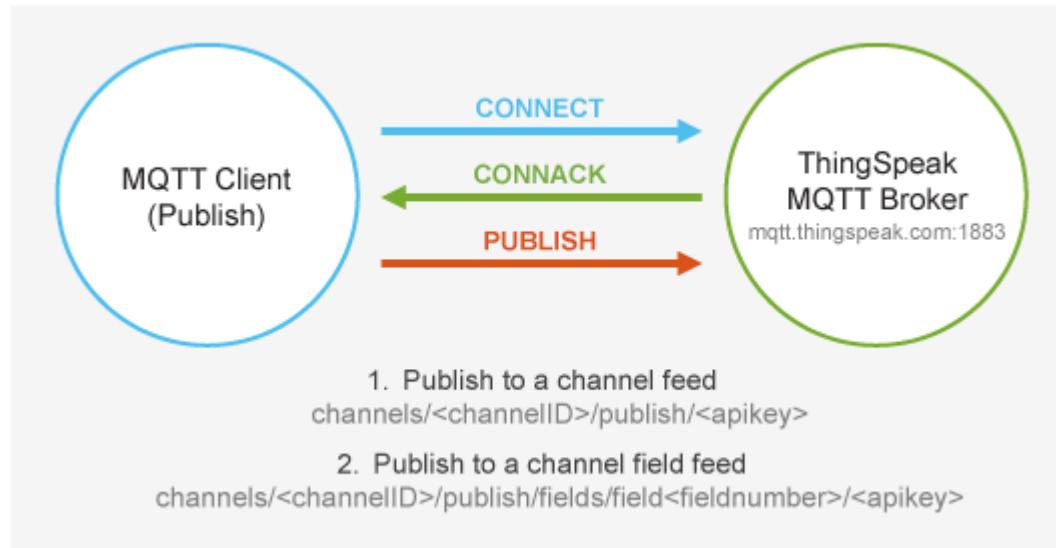
ALGORITHM DEVELOPMENT
SENSOR ANALYTICS

ATIVIDADE 2.1

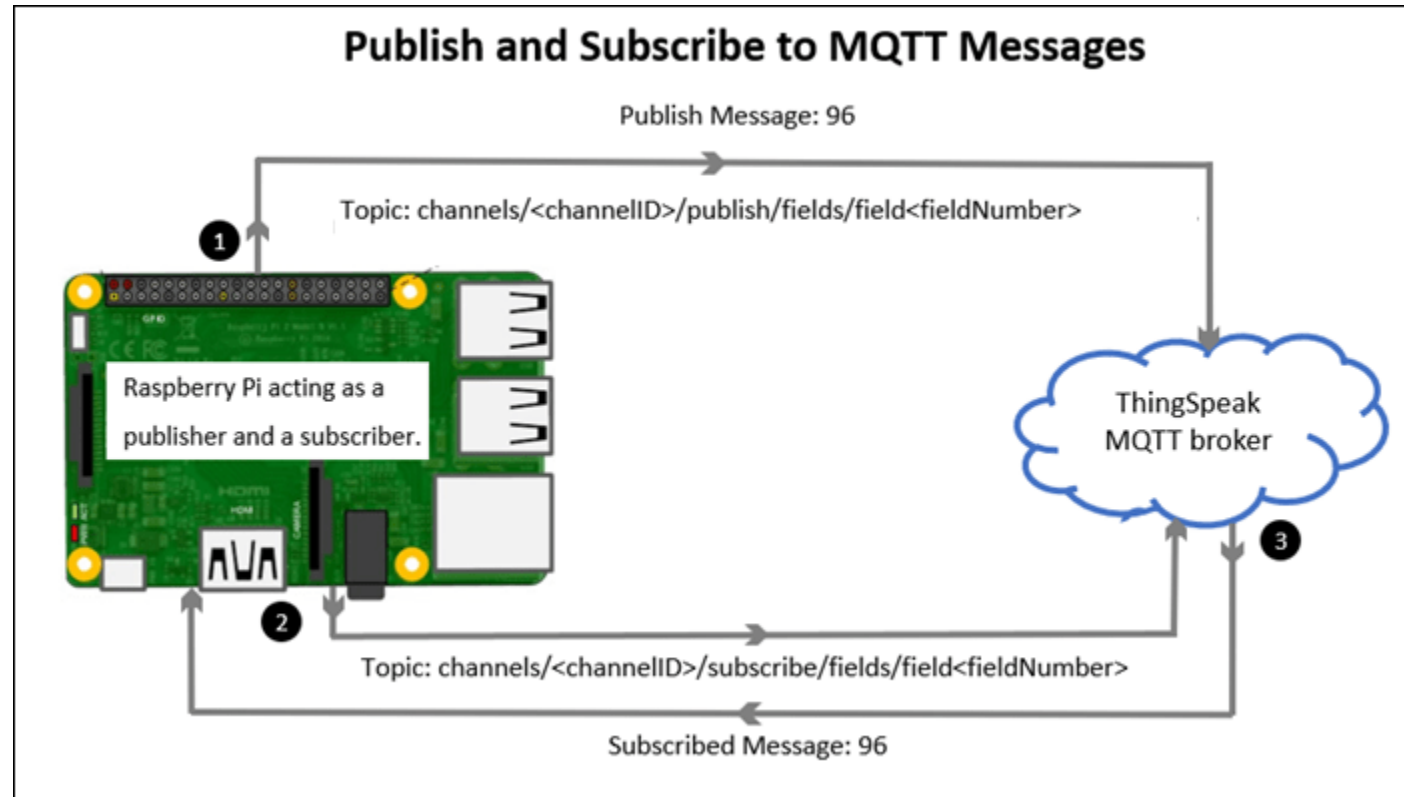
MQTT



MQTT CLIENT



RPI COMO PUBLISHER E SUBSCRIBER



SEGUIR O ROTEIRO

- <https://www.mathworks.com/help/thingspeak/getting-started-with-thingspeak.html>

ATIVIDADE 2.2

ROTEIRO

- <https://www.mathworks.com/help/thingspeak/use-desktop-mqtt-client-to-publish-to-a-channel.html>

OBRIGADO

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