



# Poworepoint presentation to foreign nationals from Bachmann

March 2024

*Changing the World's Energy Future*

Robert Christopher Ivans



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**March 2024**

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Data Scientist

# Fun with Electromagnetic Side-channel Data

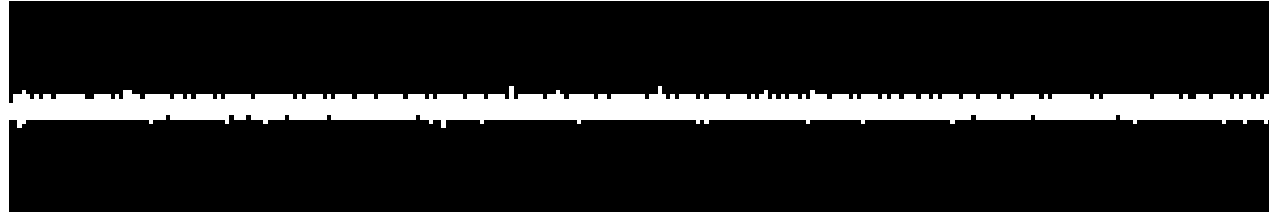
Battelle Energy Alliance manages INL for the  
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# Rockwell Network Module IC EM Data

Normal



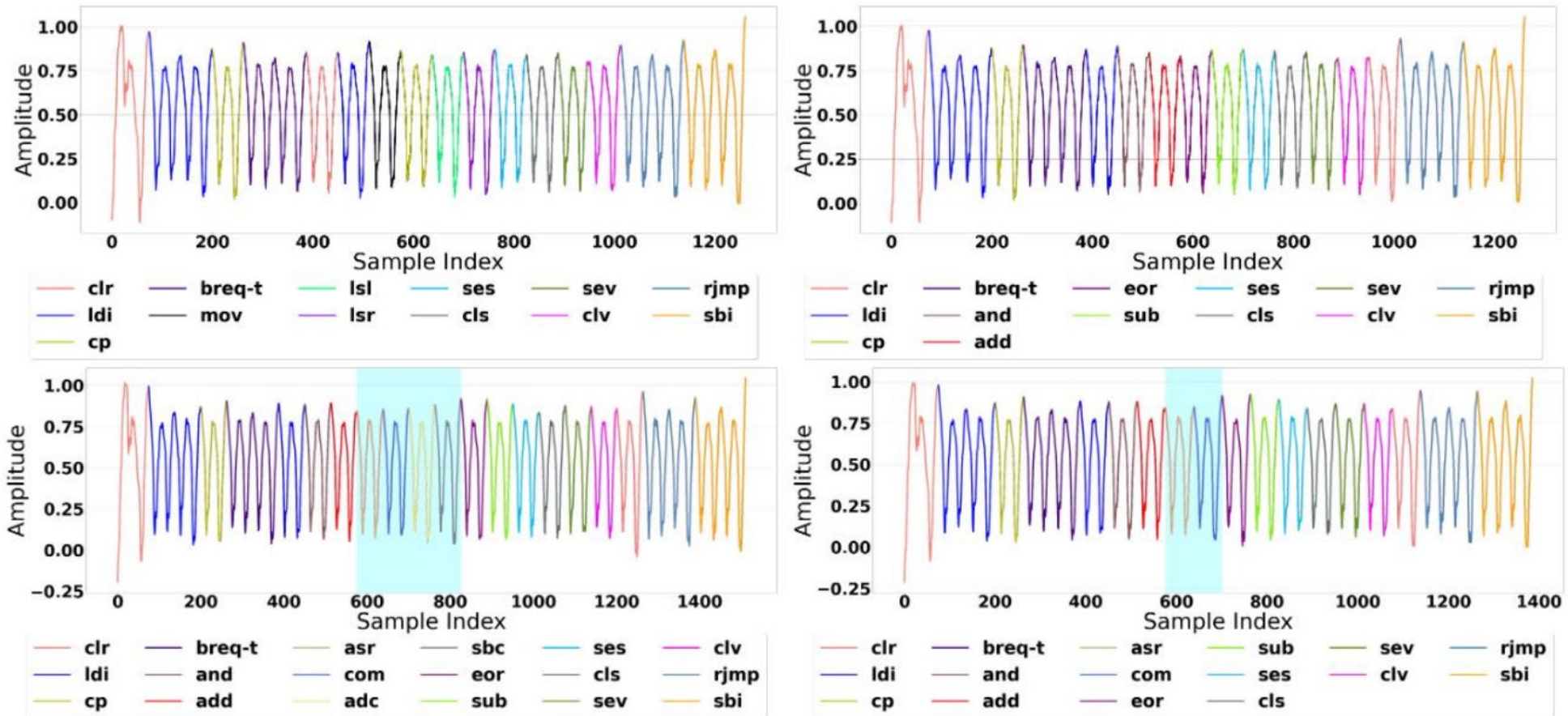
ICMP flood



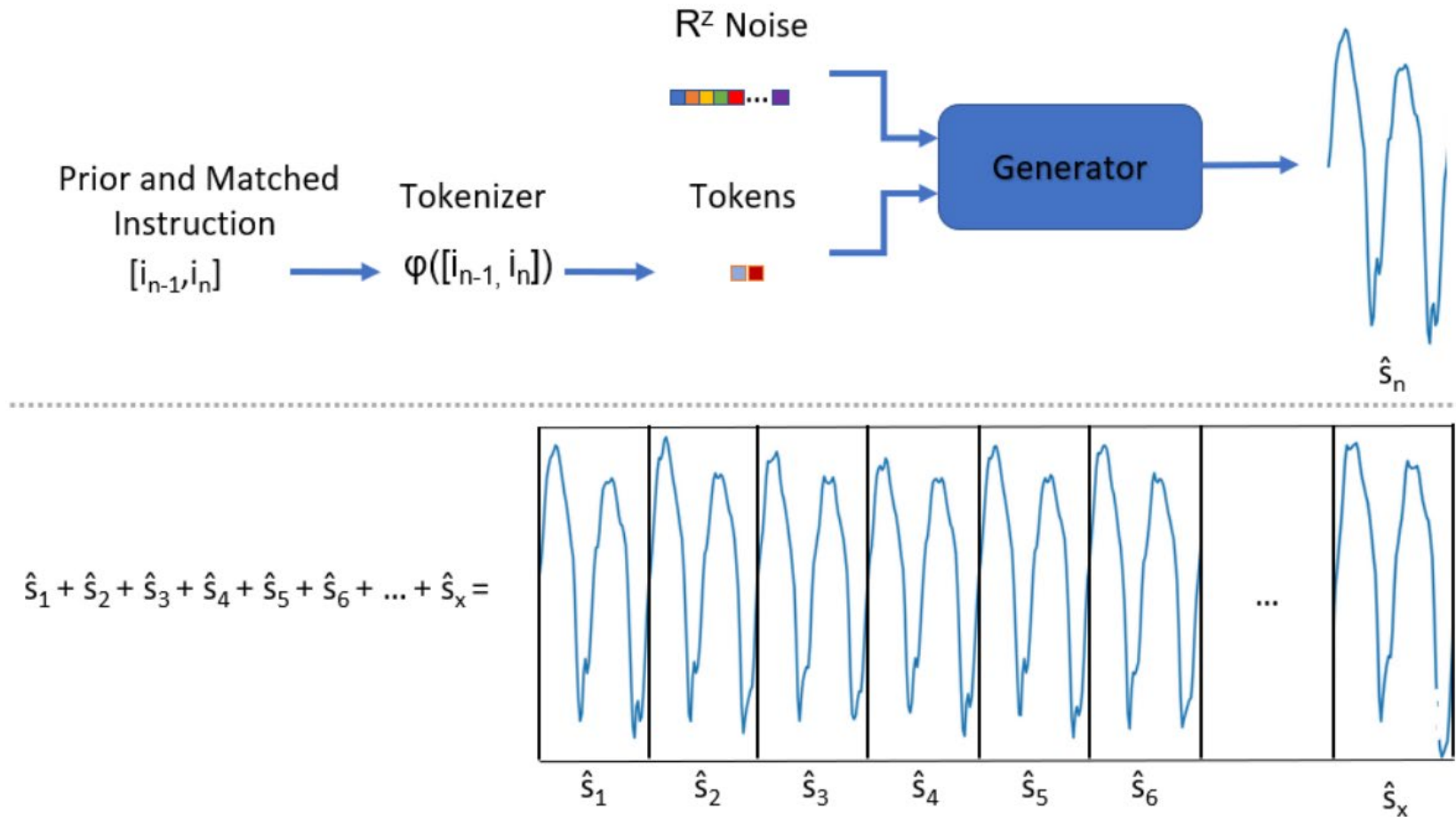
SYN flood



# Atmel Microcontroller EM Signal-to-Instruction Translation



# Atmel Microcontroller Instruction-to-Signal Generation





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