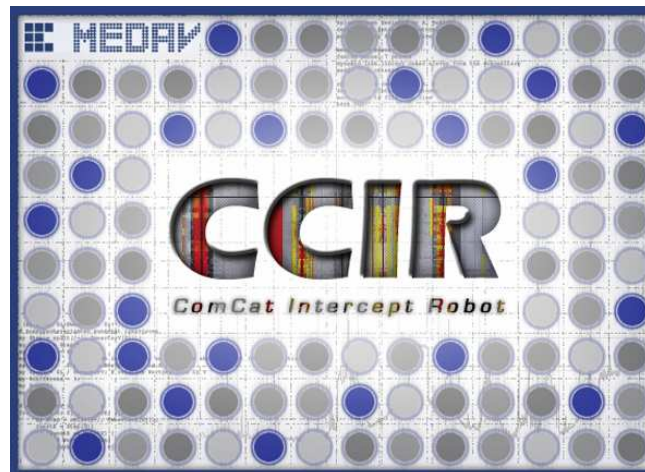


CCI-Robot

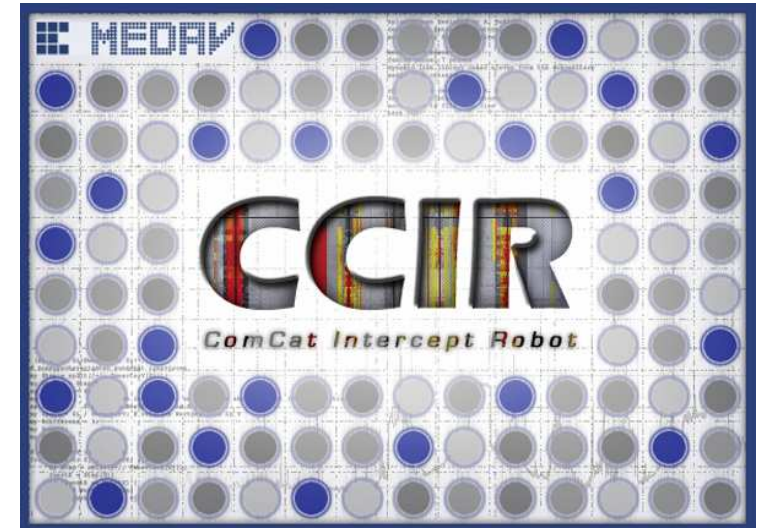


Prioritized Replacement of Processing Channels

ARS-8000

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- Motivation
- Description
- Result



Motivation

- As long CCIR channels are busy no new and important emitters can be processed.
⇒ Introduction of prioritized processing of emitters with replacement
- Increase processing probability to process important emitter
- Increase probability to process the beginning of transmission
- User can define priorities of emitters (Priority 0 – 9, 0 unimportant, 9 very important)

Description

Check for a free processing channel on a new detection

- There is a free channel: Ordinary processing
- There is no free channel:
 - Look for a channel with lower priority than the detections priority
 - Get the processing channels which belong to a detection channel and get their maximal priorities. Choose the detection channel with minimal priority.
 - If there are several channels with equal priority choose the one which is farthest to production in respect of internal processing steps (Direction Finding, Location Finding, Classification, Production)
 - Stop the selected detection channel and all associated processing channels.
 - Use the new detection channel to process the high priority detection.

Result

- Test has been performed on a recorded scenario with 6 channels.
- Different priorities have been specified inside a knowledge database.
 - It has been proven that all important emitters have been processed by the system