



CREW

Cognitive Radio Experimentation World



Collaborative spectrum sensing

- Final result of one of the three experiments in 'Open Call 1' -



Rationale for collaborative spectrum sensing

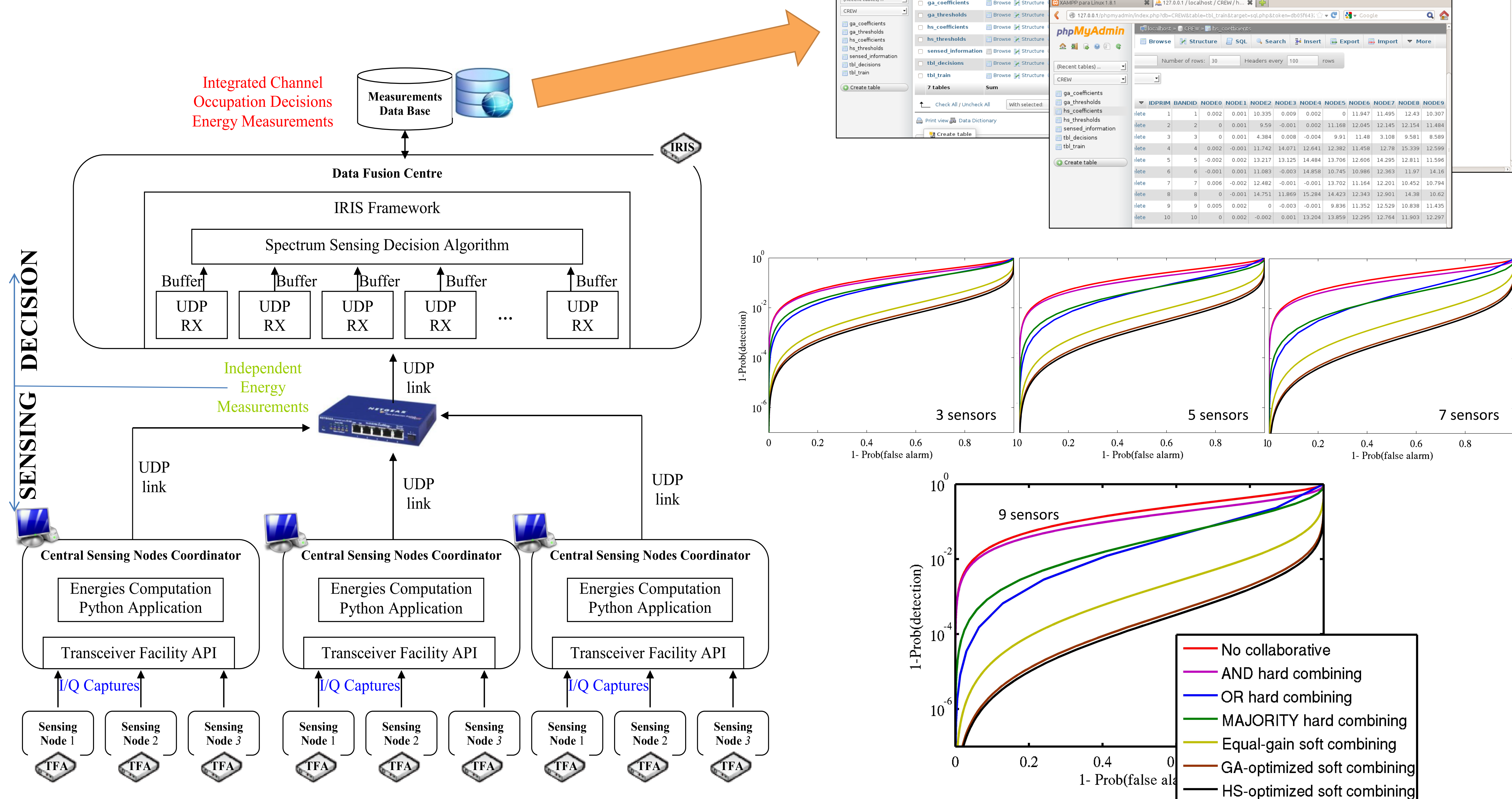
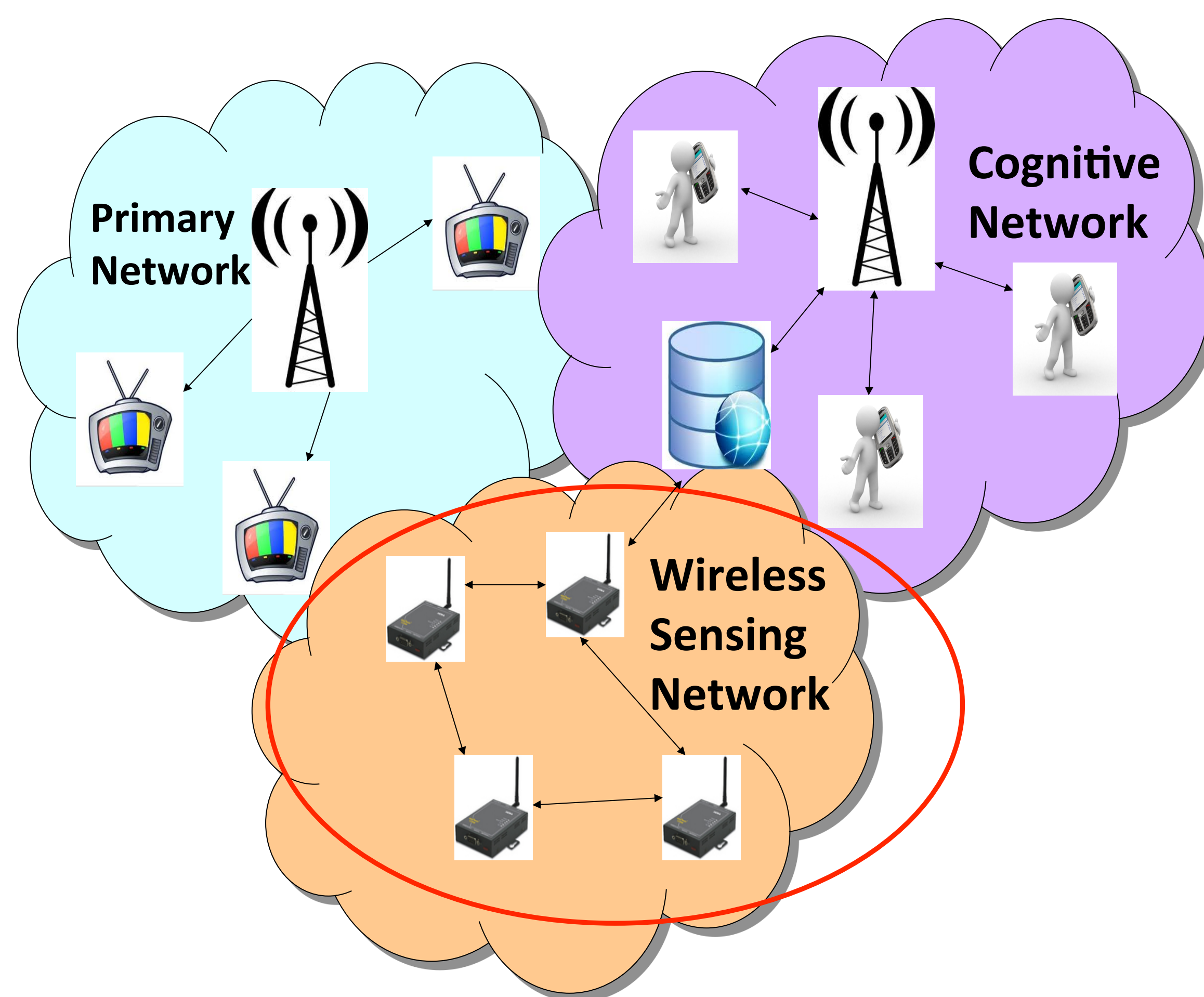
"To improve the spectrum sensing performance in non-reliable (e.g. noisy) communication environments by using several nodes in the process"

How to combine information from sensor nodes?

- HARD fusion algorithms: AND, OR, MAJORITY voting
- SOFT fusion algorithms: equal-gain LSC, optimized LSC

Main objectives of the experiment

1. To utilize the CREW infrastructure so as to validate in practice the performance of different HARD and SOFT fusion algorithms
2. To assess the gains rendered by different optimization evolutionary heuristics when applied to the optimization of linear collaborative spectrum sensing



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Future Internet Research and Experimentation – FIRE

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