Computational Intelligence & Health

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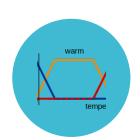
CUNEF Escuela Politécnica Superior



Computational Intelligence – areas of interest & approach to the human way of thinking



SOFT COMPUTING

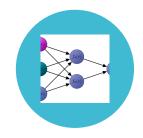


FUZZY LOGIC

&

COMPUTING WITH

WORDS

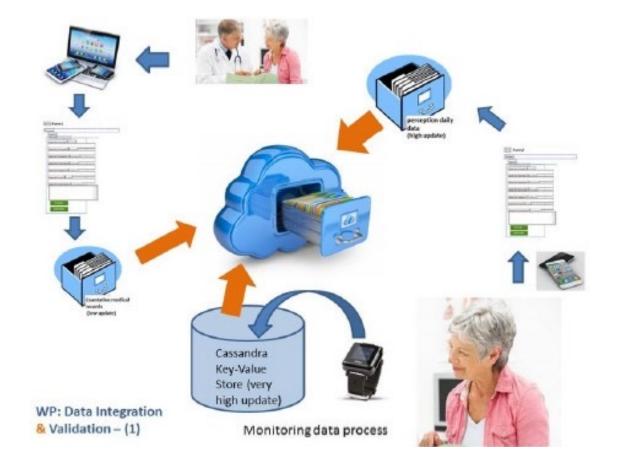


NEURAL NETWORKS

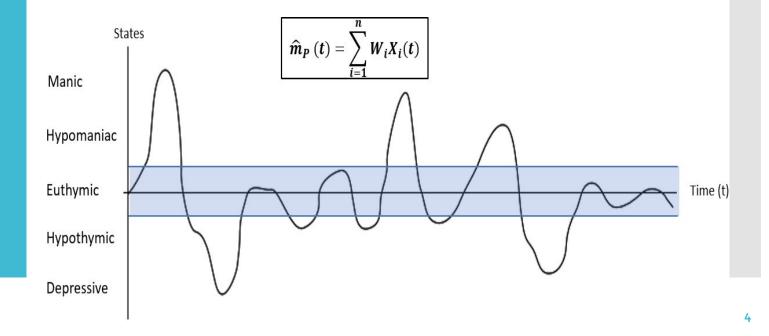
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Computational Intelligence – about data integration in Bip4Cast project



Computational Intelligence – about modelling the mood in mental disorders $\hat{m}_P(t) \in (\alpha_P, \beta_P)$ is an indicator of euthymic state. $\hat{m}_P(t) < \alpha_P$ is an indicator of depression. $\hat{m}_P(t) > \beta_P$ is a mania crisis indicator.

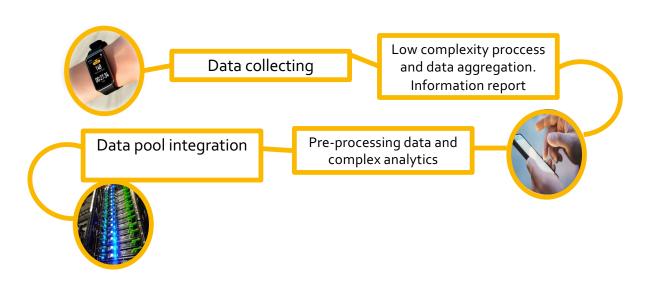


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Computational Intelligence & Health – sources of information



Computational Intelligence & Health – some issues in raw data collecction and integration



Can data analysis prevent depression? Can data analysis predict a crisis in bipolar disorder?