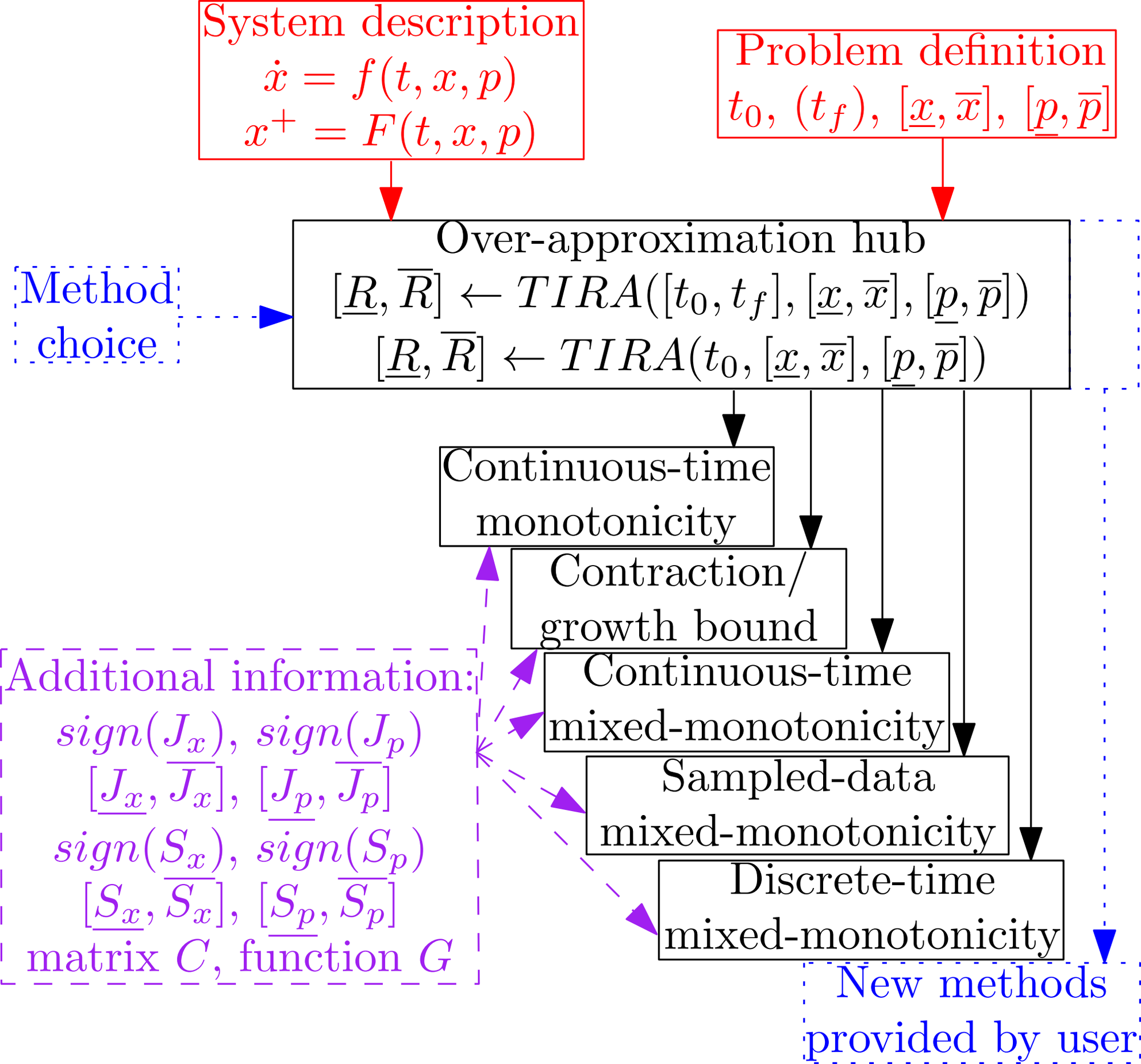
System description
$\dot{x} = f(t, x, p)$
$x^+ = F(t, x, p)$
Problem definition
t_0, (t_f), $[\underline{x}, \overline{x}]$, $[\underline{p}, \overline{p}]$
Method choice
Over-approximation hub
$[\underline{R}, \overline{R}] \leftarrow TIRA([t_0, t_f], [\underline{x}, \overline{x}], [\underline{p}, \overline{p}])$
$[\underline{R}, \overline{R}] \leftarrow TIRA(t_0, [\underline{x}, \overline{x}], [\underline{p}, \overline{p}])$
Continuous-time monotonicity
Contraction/ growth bound
Continuous-time mixed-monotonicity
Sampled-data mixed-monotonicity
Discrete-time mixed-monotonicity
Additional information:
$sign(\underline{J_x})$, $sign(\underline{J_p})$
$[\underline{J_x}, \overline{J_x}]$, $[\underline{J_p}, \overline{J_p}]$
$sign(\underline{S_x})$, $sign(\underline{S_p})$
$[\underline{S_x}, \overline{S_x}]$, $[\underline{S_p}, \overline{S_p}]$
matrix C, function G
New methods provided by user