List of Figures

List of Tables

List of Symbols

σ	Extended state information of a pair of extended objects
σ_{xy}	Extended state information of $core_{xy}$
$\mathcal{T}$	Time function that determines whether a component appears at a given time point
ε	Edge label that is three-tuple of toplogical, direction and distance relation
$ls_{i,j}^{u:t}$	Label sequence between i^{th} component of the first entity and the j^{th} component of the second entity from time point u to t
$\mathcal{G}$	The set of all temporal activity graphs
κ	Temporal activity graph kernel
κ_{ls}	Label sequence similarity function
κ_{edge}	Edge label similarity function
$\mathcal{C}^Q$	Conceptual Neighbourhood graph of the Qualitative Relational Calculus Q
$\mathcal{N}_s^{\mathcal{C}}$	Neighbourhood based similarity given the conceptual neighbourhood graph $\mathcal{C}$
Σ	Set of terminals for some grammar
Δ	Set of non-terminals for some grammar
Γ	Set of activities represented as TAGs
$\mathbb{G}_C$	TAG grammar for the activity class C