

Syntax, Semantics and the Formalisation of Social Science Theories- Maria Dimarogkona, Mark Addis and Petros Stefaneas

- Can define some social science theories as a theory over an institution which represents the underlying logical formalism
- Model different theoretical vocabularies as theories for various given signatures over an institution
- Duality of a Galois connection is sufficient to relate a theory and its class of models
- An algebraic scientific theory calculus can be developed
- New perspective on syntactic approaches to scientific theories
- Reference: Dimarogkona, M., Addis, M. and Stefaneas, P. [2019]. Syntax, Semantics and the Formalisation of Social Science Theories. In Addis, M., Lane, P.C.R., Sozou, P.D. and Gobet, F.(eds.) *Scientific Discovery in the Social Sciences*. Heidelberg: Springer