Hybrid Cooperation Models for Adaptive Diplomacy

Research set – #01 – September 01 2018

1. Definitions
2. **Hybrid** = heterogeneous agents, i.e. local and global actors mediate

* Problem: game theory assumes homogenous agents by default, hence hybridity is trivial for the purpose of a model (assuming it cannot be expressed through differences in payoffs)
* Solution: represent heterogeneity through information asymmetry and uncertainty, which are well-established parameters
* Proposal: express differences between peacebuilding actors indirectly through features such as instable information states and noisy communication links

1. **Adaptive** = reaction to a complex, noisy environment that features less predictable partner selection and as a result, faster decision cycles
2. **Noise** = deviations from prevailing behavioral norms
3. Research summaries
4. **Complexity and adaptive conflict management strategies**
5. *Getting Past Conflict Resolution: A Complexity view of Conflict*. Andrade L., Plowman D., Duchon D. 2008. Emergence: Complexity and Organization.
6. (**\***) *Adaptive Peacebuilding*. Coning, C. de. March 2018. International Affairs. <https://academic.oup.com/ia/article/94/2/301/4851911>
7. From Peacebuilding to Sustaining Peace: Implications of Complexity for Resilience and Sustainability. Coning, C. de. March 2016. Resilience. <https://www.tandfonline.com/doi/abs/10.1080/21693293.2016.1153773>
8. Complexity Thinking for Peacebuilding Practice and Evaluation. Brusset, E. (ed). 2016. Palgrave Macmillan. <https://www.palgrave.com/de/book/9781137601100>
9. The Era of Private Peacemakers – A New Dialogic Approach to Mediation. Lehti, M. 2019 (forthcoming). Springer. <https://www.springer.com/de/book/9783319912004>
10. *Complex Adaptive Peacemaking: How Systems Theory Reveals Advantages of Traditional Dispute Resolution*. Okulski, J. January 2017. American Indian Law Journal. <https://digitalcommons.law.seattleu.edu/cgi/viewcontent.cgi?referer=https://www.google.com/&httpsredir=1&article=1116&context=ailj>
11. *Peacebuilding in Complex Social Systems*. Loode, S. December 2011. Journal of Peace, Conflict & Development. <https://www.bradford.ac.uk/social-sciences/peace-conflict-and-development/issue-18/5-Iss-18-Art-30-Final.pdf>
12. *Complex Adaptive Operations and the Battlefield of the Future*. Bazin, A. February 2018. Modern War Institute. <https://mwi.usma.edu/complex-adaptive-operations-battlefield-future/>
13. (**\***) *Conflict Intelligence and Systemic Wisdom: Meta‐Competencies for Engaging Conflict in a Complex, Dynamic World*. Coleman, P. January 2018. Negotiation Journal. <https://onlinelibrary.wiley.com/doi/abs/10.1111/nejo.12211>
14. **Hybridity in conflict management**
15. *Hybridity on the Ground in Peacebuilding and Development – Critical Conversations*. Wallis J. et al. 2018. ANU Press. <https://press.anu.edu.au/node/4146/download>
16. *Peace Operation Partnerships: Lessons and Issues from Coordination to Hybrid Arrangements*. Bah S. and Jones B. April 2008. Peace Operations Review.

<https://peaceoperationsreview.org/wp-content/uploads/2015/04/2008_peace_hybrid_arrangements_bah_jones.pdf>

1. *Hybrid Peace Operations: Rationale and Challenges*. Thierry T. January-March 2014. Global Governance: A Review of Multilateralism and International Organizations

<http://journals.rienner.com/doi/abs/10.5555/1075-2846-20.1.95>

* Hybrid peace operations have evolved as an ad-hoc and case-responsive but not strategic approach. Hence, there are no generalized templates for hybrid operations.
* Dynamics of partial competition present long-term obstacles to coherence of hybridity.
* Mentions lack of common understanding on foundations of cooperation and strategy between actors => translatable into game theory as limited common knowledge

1. **Types of games and model fundamentals**
2. Coordination Games

http://opim.wharton.upenn.edu/~sok/papers/g/ecscg.pdf

1. Signaling Games
2. Screening Games
3. Biform Games
4. *Global Games and Equilibrium Selection*. Carlsson H. and Damme E. van. September 1993. Econometrica. <https://www.jstor.org/stable/2951491?seq=1#page_scan_tab_contents>

Basic assumptions of GT: the rules of the game, including its payoff structure and rationality of the players, are common knowledge.

1. **Underlying assumptions of game theory**
2. <http://www.southeast-europe.org/pdf/17/dke_17_a_e_Malvina-Tema_Game-Theory-and-IR.pdf>
3. **Information asymmetry and uncertainty**
4. **Cooperation and instable information states**
5. *When in Doubt…Cooperation in a Noisy Prisoner Dilemma*. Bendor J., Kramer R., Stout S. December 1991. The Journal of Conflict Resolution. <http://journals.sagepub.com/doi/abs/10.1177/0022002791035004007>
6. *Cooperation in Symmetric and Asymmetric Prisoner Dilemma Games*. Beckenkamp M., Henning-Schmidt H., Maier-Rigaud F. March 2007. Max Plank Institute. <https://www.coll.mpg.de/pdf_dat/2006_25online.pdf>
7. **Computation and cooperation**
8. *Capture the Flag: The Emergence of Complex Cooperative Agents*. Jaderberg M. et al. July 2018. DeepMind. <https://deepmind.com/blog/capture-the-flag/>
9. Questions
10. What type of model? Is communication part of the model or is this a model of communication? Agent-based or game-based?
11. The goal is to extract features from the hybridity literature and built a game theoretical model around them
12. How to model limited cooperation, limited integration?
13. To what extent is there a conflict of interest?

Links:

##### [Reconfiguring Intervention: Complexity, Resilience and the 'Local Turn' in Counterinsurgent Warfare](https://catalyst.library.jhu.edu/catalog/bib_6654959)

The strange wars of liberal peace: hybridity, complexity and the governing rationalities of counterinsurgency in Somalia

<https://arxiv.org/ftp/arxiv/papers/1708/1708.01636.pdf>

<https://link-1springer-1com-1001340ke04bd.emedia1.bsb-muenchen.de/article/10.1023/A%3A1015575522401>

<https://link-springer-com.proxy1.library.jhu.edu/book/10.1007%2F978-3-319-26806-4>

International Peacebuilding and Local Resistance Hybrid Forms of Peace

<http://eds.a.ebscohost.com.proxy1.library.jhu.edu/ehost/detail/detail?vid=0&sid=30e9b45d-c976-4490-b392-e366c0fff812%40sessionmgr4007&bdata=JnNpdGU9ZWhvc3QtbGl2ZSZzY29wZT1zaXRl#AN=1285333&db=eoh>

<http://aix1.uottawa.ca/~rparis/Barnett_Zurcher_DRAFT.pdf>

Adaptive mediation: An evidence-based contingency

approach tomediating conflict