Frontiers of Kinship Network Analysis


TOPICS: network cohesion in kinship, parental graphs, structural endogamy, social class, property transmission, complexity, small worlds, simulations, visualization, motifs/cycles, dividedness, sidedness, Dravidian systems, kinship theorems, network ethnography.

PART 1: Kinship Network Analysis (KNA): the parental graph breakthrough


PART 2: Controlled simulation as a means of discovery


PART 3: Dual organization in self-organizing bipartite networks


**PART 4: Sided kin terms and Dravidian sided networks: Signed graph theorems and structures**


12. 2005 *Multiple Measures of Alyawarra Kinship*. Woodrow W. Denham and Douglas R. White. Field Methods 17: 70-101. [http://fmx.sagepub.com/cgi/content/abstract/17/1/70 abstract - Charles Kemp-click for his talk, Griffiths, T. L. & Tenenbaum, J. B. (2004) Discovering latent classes in relational data. Al Memo 2004-019 - see Part 4 on blocking Alyawarra kin terms Another artificial Intelligence paper that uses the Alyawarra kinship data in ways directly related to the work by Charles Kemp et al. at MIT a few years ago. (2007) Statistical Predicate Invention (SPI) Stanley Kok + Pedro Domingos WWD. They test SPI using a ten-fold cross-validation on four data sets, one of which is our 142 person Alyawarra kinship data and "then introduced MRC, an approach to SPI based on second-order Markov logic. MRC forms multiple relational clusterings of the symbols in the data and iteratively refines them." The best performance is for the kinship data.

**PART 5: Networks and complexity: Middle Eastern clan structure**


PART 6: Kinship structure and marriage cycles

16. 2004 Matrimonial Ring Structures Klaus Hamberger, Michael Houseman, Isabelle Daillant, Douglas R. White and Laurent Barry. Mathématiques et sciences humaines 43(168):83-121. TIPP Kinship and computing replaces: Marriage net tools - This article has an interactive graphics page


PART 7: Breakthroughs in understanding kinship at multiple levels


PART 8: Further ethnographic studies


