Recovering an Indigenous Contribution to the *Philosophical Transactions* Using SADFC

J. P. Ascher, January 2022

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Digital Investigation 11 (2014) S95–S105



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A complete formalized knowledge representation model for advanced digital forensics timeline analysis

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ABSTRACT

Having a clear view of events that occurred over time is a difficult objective to achieve in digital investigations (DI). Event reconstruction, which allows investigators to understand the timeline of a crime, is one of the most important step of a DI process. This complex task

Keywords: **Digital forensics** Timeline analysis





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Fig. 1. Knowledge model.





Table 2 Allen algebra.

Const	Functions
$X_{t_{end}} <$	before(X,Y)
$x_{t_{start}} = y_{t_{start}} \&$	equal(X,Y)
$X_{t_{end}} =$	meets(X,Y)
	overlaps(X,Y)
$x_{t_{start}} > y_{t_{start}} \&$	during(X,Y)
$X_{t_{start}} =$	starts(X,Y)
$X_{t_{end}} =$	finishes(X,Y)



x is Correlated e means that x is linked to e on the basis of multiple criteria: use of common resources, \rightarrow participation of a common person or process, temporal position of events.



Relation of causality: x causes e means that

x has to happen to allow e to happen.





[987] Numb. 171. PHILOSOPHICAL TRANSACTIONS.

May 20th. 1685.

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Decem. 22, 1684.

Letter was read from Mr. A/b, in answer to a Que-Try fent down by the Society to him concerning a man who had a constant and periodical, Evacuation of Blood at the end of his fore-Finger; from which Letter the following return is abstracted.

Walter Wal/b, an Inn-keeper in Trym, born in Ireland, of a temperate Diet, Sanguin Complexion, and pleasant Humor, in the 43d year of his Age, anno 1658, about Easter, was seiz'd with a great pain over all his right Arm; a greatheat, and redness in his right hand; and a pricking in the point of the fore-Finger; whereon there appear'd a small speck, as if a little Thorn had run in; and supposing it such he opend it, whereupon the Blood spun out in a Violent but small stream; after it had spent its Violence, it would cease for a while and only drop, and then fpring out with Violence again, continuing thus for 24 hours, till at last he fainted away, and then the Blood stancht of it self, and his pains left him : from that time during his whole life, (which continued 12 years,) he was frequently troubled with like Fits; seldom having a respit of 2 months, and they never returned oftener then in 3 weeks : he rarely Bled lefs then a Pottle at a time; the oftener the Fit came the less he Bled; and the more rarely it affaulted him, he Bled the more; whenever they endeavor'd to stanch the Blood, it raised most exquisite tortures in his Arm; no remedys that

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shat were ever used proved in the least effectuall: he had no other distemper that troubled him; neither season, nor weather wrought upon him: he had no outward accident that at first brought the Bleeding : Drinking more then ordinary made him more apt to Bleed: he had no Child after his first seisure: these trequent Fits brought him at last very low, infomuch that towards his latter end he Bled but little, and that too but like diluted water. He dyed of this Distemper on the 13th of Feb. 16%.

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A Discourse concerning Weather, Gc. By the learned Dr Garden of Aberdene. Written by way of Letter, to Mr. Henry Scougall, Professor of Theology in that University; and communicated to the Phil. Soc. of Oxford, by the reverend Dr Middleton, Provost of the Kings College in Aberdeen.

Company and

Sir.

Am sorrie, I can give you no better satisfaction in this account you demand of the Conjecture we had lately occasion to talk about, my other necessarie diversions and the few observations I have made, render it the more imperfect. However fince 'tis your pleasure, you shall have it as it is; and if it come afterwards to be cleared & confirmed by the joynt observations and sentiments of others, it may pals for an Aero-Statical Hypothesis of the various changes of the Weather.

We have been hitherto to seek for an intelligible account of the ascent of Vapours, the ballancing of the Clouds and their dropping down again into rain; and the wind bloweth where it listeth, and we know not whence it cometh, nor whither it goeth; and 'tis like our conjectures about the more immediate causes of all these may be still uncertain Guesses, yet the works of God are fought out of all those that take pleasure in them: and the late known properties of the Air, viz. its weight and Spring have made men more inquisitive in this matter then formerly: and you know how by the observations of the Baroscope they perceive that the Atmospheres Gravity is not always the same, and are surprized to see the Mercury subside for the most part in Foggy, rainy, windy, or cloudy, weather; and on the contrary to alcend and be higheft in calm and clear seafons. I shall not stay here to tell you the Conjectures of others about this, but shall only take occasion to consider how this may . serve

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OF THE

ROYAL SOCIETY of LONDON,

FOR IMPROVING OF

NATURAL KNOWLEDGE,

FROM ITS FIRST RISE.

IN WHICH

The most confiderable of those Papers communicated to the SOCIETY, which have hitherto not been published, are inferted in their proper order,

AS A SUPPLEMENT TO

THE PHILOSOPHICAL TRANSACTIONS.

By THOMAS BIRCH, D.D.

SECRETARY to the ROYAL SOCIETY.

VOL. IV.

Talem intelligo PHILOSOPHIAM NATURALEM, quæ non abeat in fumos speculationum subtilium aut sublimium, sed quæ efficaciter operetur ad sublevanda humanæ vitæ incommoda. BACON de Augm. Societat. L. ii. c. 2.

LONDON:

Printed for A. MILLAR in the Strand.

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THE HISTORY OF THE [1684.

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"	The fame egg boiled	3ij - 3i - Di gr. xviij.
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49	" Loft in weighing	00 - 00 - 00 gr. v.

" These experiments were tried with a pair of scales, which turned with half " a grain, and are designed as part of an answer to one of Sir WILLIAN PETTY'S " queries."

A discourse was read, sent by Mr. WILLIAM MOLYNEUX, concerning the bogs and loughs of Ireland, written by Mr. WILLIAM KING, fellow of the Dublin Society '. The caufe affigned of these bogs was the want of industry, the springs raising up gradually a plexus of heath and grass, the bottom under the water being a white clay or fandy marl. The inconveniences of them are fpoiling communication, destruction of cattle, sheltering rogues, and corrupting the air and waters. sot to the pores of the carbon set to the

The ways of draining them are cutting trenches, and deepening them by degrees, till you come to the bottom.

Dr. LISTER was of opinion, that the difcoloured water coming from the bogs might be from the flower of the heath falling into the water.

A letter of Monf. JUSTEL to Mr. ASTON", concerning fome inventions at Paris; a curious perspective of a hall; a candlestick snuffing its own candles; an invention to estimate the way of a ship; a stove for warming feveral chambers; and an account of feveral books printing at Paris.

Mr. PAGET prefented Dr. BARROW's posthumous lectures.

Dr. PAPIN shewed feveral forts of gellies, which he had filtrated and made fine by means of the pneumatic engine, according to the method approved of at the laft meeting. His account of these experiments was as follows *:

"Having fhewn in the laft meeting the good effect of the inftrument for fil-trations, I hope the Royal Society will be pleafed to fee a real and great ufe it may be applied to, for making gellies extraordinary fine, and at a cheap " rate : I have therefore brought hither three forts of gellies : the first feasoned " with fugar, and near as fine as ordinary gellies, commonly fold for two shil-" lings a pound : ard yet this may be afforded for a groat : the fecond gelly

" This discourse is printed in the Philof. " Letter-book, vol. x. p. 7. Tranfact. Nº. 170. p. 948, for April 168;

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March 2. Dr. LISTER vice avang been bitten by a mitte Upon reading the minutes

THEHISTORYOFTHE 372 Mr. ASTON produced a large piece of brown fugar, delivered to him by Monf. JUSTEL. It was faid to be made by the favages of Canada, who at the time, when the juice rifes in the maple (l'erable) let it out, and evaporated it to an eighth part; at which time it was faid to be as fweet as the fugar from the fugarcanes.

Mr. ASTON was defired to fend a piece of the fugar to Mr. RAY, and also to Oxford, intimating, that the Society would be glad to have the experiment made by them, this being about the time that the fap rifes; and that if the fap will not granulate without it, there may be used lime-water.

It was faid, that at Brocklefby in Lincolnfhire there were fycamores planted in





168-

Sour augmenter las Colonic, dans l'Esprit auer lequel vous travailles a reduire les habitations qui Sont Esparver en Corpre de parroisser, Il me femble, que fans S'attendre a faire Capital sur les nouveaux. Colonie que l'on peut ennoyer de france., Il n'y auroit rien qui y~ comm Denviter contribuait danantage que de tascher a ciniliser les .-Januages Chreter. and fetables & algonquine, willer huronie et les autres Saunages qui ont embrado le Christianisme, et les disposer a se venir establis en Communantes aner les françois pou 1 Vuire auce eux, et colones leurie Enfance dance non mourse, et dance nore Construmente

April 1666: To build the colony peacefully by ... civilizing the Algonquins, the Hurons, and the other Indians who embraced Christianity, and to dispose them to come and establish themselves in Community with the French, and to educate their children in our customs

contribuait danantage que de tascher a ciniliser les Vetabler & algonquina, " love hurone et los autres Saunages qui ont embrasse le Christianisme, et les disposer a se Venir establis en Communantes aner las francois pou 1 Vuire auce eux, et colones leurie Enfance dance non mourse, et dance nore Construmente

	Wife's age at marriage (years)						
	15-19		20-24		25-29		
Population	Family size	Number of marriages	Family size	Number of marriages	Family size	Nı ma	
France							
Northwestern quarter, marriages in 1670–1769	8.3	_	7.I		5.5		
Southwestern quarter, marriages in 1720–1769	7.2	276	6.6	315	5.3		
Canada							
All Canadian women, marriages before 1730	11.8	3,221	9.7	2,708	7.2		

Completed family size, by wife's age at marriage Table 1

Sources: Henry and Houdaille 1973: 895; Henry 1972: 983; Programme de recherche en démographie historique, Population register of early Quebec.

Landry, Yves "Fertility in France and f New France: The Distinguishing Characteristics of Canadian Behavior in the Seventeenth and Eighteenth Centuries" Social Science History 17.4 (Winter 1993) 577-592.

Demographic as well as cultural, political, and economic reasons could be given to understand the kind of intermarriage promoted. First, the lack of nubile French females in the colony, aggravated by demographic weakness, partly explains official attitudes. Between 1608 and 1699, only 1,772 women (nuns excepted) emigrated to Canada as compared with 12,621 men. The sexual imbalance remained a feature of colonial society to the end of the century.⁴⁷

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A FIRST SHIFT FROM THE INITIAL POLICY of intermarriage occurred in 1682, when Intendant de Meulles (in charge from 1682 to 1686) criticized the endowment of native girls. He believed it was a useless expenditure for "there is hardly one or two who marry each year." Statistical evidence concerning intermarriage has always been difficult to obtain, and the numbers available are not reliable because mixed unions were commonly celebrated à la facon du pays, that is according to

In 1686, Governor General Jacques-René de Brisay de Denonville (in office from 1685 to 1689) advocated the first definite move away from interethnic cohabitation, arguing that although "For a long time, it was believed that domiciling the Savages near our dwellings was likely to accustom them to live like us ... I realize Monseigneur, that the very opposite has happened because, instead of becoming familiar with our laws . . . they communicate to us all they have that is the very worst, and they take on likewise all that is bad and vicious in us." According to Denonville, French-native cohabitation presented the seduction of indigenous lifestyle to transplanted Frenchmen instead of bringing savage men to civil society. As Denonville believed that living together had very harmful sociocultural effects, he wanted the two groups to be separated to protect colonial youth from the Amerindians, whose acculturation seemed to him far lower than that of the settlers. This segregation required that colonial authorities gather non-Christian natives living in the vicinity of Montreal inside villages;⁶⁸ Denonville also encouraged the further establishment of Jesuit reservations.

Belmessous, Saliha "Assimilation and Racialism in Seventeenth and Eighteenth-Century French Colonial Policy" American Historical Review 110.2 (April 2005) 322-349.

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