# Personal bibliography reminders.

# I apologise for incompleteness and inconsistent formatting. This document is intended for my own use as a source of reminders.

### [Anderson 1972]

Anderson, P.W. (1972) More is different. *Science*, New Series 177(4047):393-396, URL <u>http://robotics.cs.tamu.edu/dshell/cs689/papers/anderson72more\_is\_different.pdf</u>

### [Ashby 1952]

Ashby, W.R. (1952), Design for a Brain, Chapman and Hall, London

### [Ashby 1956]

Ashby W.R. (1956) *An Introduction to Cybernetics.* Chapman & Hall, URL <u>http://pespmc1.vub.ac.be/ASHBBOOK.html</u>

### [Bakermans (2015)]

Corien Bakermans, 2015, Chapter 1: Extreme environments as model systems for the study of microbial evolution, in *Microbial Evolution under Extreme Conditions*, Ed. Corien Bakermans. DeGruyter pp 153-170

 Dana Ballard and Chris Brown, *Computer Vision* 1982, Prentice Hall, Inc., Englewood Cliffs, New Jersey 07632, USA, Freely available online: <u>http://homepages.inf.ed.ac.uk/rbf/BOOKS/BANDB/bandb.htm</u>

### [Beaudoin 1994]

Beaudoin L (1994) *Goal processing in autonomous agents.* PhD thesis, School of Computer Science, The University of Birmingham, Birmingham, UK, URL <a href="http://www.cs.bham.ac.uk/research/projects/cogaff/81-95.html#38">http://www.cs.bham.ac.uk/research/projects/cogaff/81-95.html#38</a>

[Beaudoin and Sloman 1993]

Beaudoin L, Sloman A (1993) A study of motive processing and attention. In: Sloman A, Hogg D, Humphreys G, Partridge D, Ramsay A (eds) *Prospects for Artificial Intelligence,* IOS Press, Amsterdam, pp 229-238, URL http://www.cs.bham.ac.uk/research/projects/cogaff/81-95.html#16

#### •

### [Bell 2008]

Bell G (2008) Selection The Mechanism of Evolution. OUP, second Edition

### •

# [Bennett 2011]

Bennett K (2011) Construction Zone: No Hard Hat Required. *Philosophical Studies* 154:79-104, DOI 10.1007/s11098-011-9703-8

•

[Chappell and Sloman 2007]

Chappell J, Sloman A (2007) Natural and artificial meta-configured altricial information-processing systems. *International Journal of Unconventional Computing* 3(3):211-239, URL <u>http://www.cs.bham.ac.uk/research/projects/cogaff/07.html#717</u>

- Patricia, Blanchette, The Frege-Hilbert Controversy, in *The Stanford Encyclopedia of Philosophy*, ed. Edward N. Zalta, Spring 2014 edition. <u>http://plato.stanford.edu/archives/spr2014/entries/frege-hilbert/</u>
- A.A.S. Weir, J. Chappell and A, Kacelnik, Shaping of hooks in New Caledonian crows, Science, 297, 9 August 2002 p. 981, <u>https://www.youtube.com/watch?v=UDg0AKfM8EY</u>
- J. Chappell and A. Kacelnik, New Caledonian crows manufacture tools with a suitable diameter for a novel task, *Animal Cognition*, 7, 121--127, 2004
- Jackie Chappell and Aaron Sloman, 2007, Natural and artificial meta-configured altricial information-processing systems, *International Journal of Unconventional Computing* 3, 3, pp. 211--239, http://www.cs.bham.ac.uk/research/projects/cogaff/07.html#717

# [Chomsky 1965]

Chomsky N (1965) Aspects of the theory of syntax. MIT Press, Cambridge, MA

- M.B. Clowes, 1971, On seeing things, in *Artificial Intelligence* 2, 1, pp. 79--116, http://dx.doi.org/10.1016/0004-3702(71)90005-1
- Max Clowes. Life and work of Max Clowes: an annotated bibliography. <u>http://www.cs.bham.ac.uk/research/projects/cogaff/sloman-clowestribute.html#bio</u> (Maintained by Aaron Sloman. Contributions welcome. Needs a Wikipedia page?)

### •

[Coates et al 2014]

Coates J, Umm-E-Aiman, Charrier B (2014) Understanding "green" multicellularity: do seaweeds hold the key? *Frontiers in Plant Science*, Doi: 10.3389/fpls.2014.00737

### •

[Cooper and van Leeuwen 2013]

Cooper SB, van Leeuwen J (eds) (2013) *Alan Turing: His Work and Impact.* Elsevier, Amsterdam

[Deacon 2011]

Deacon TW (2011) Incomplete Nature: How Mind Emerged from Matter. W. W. Norton & Company

• Terrence Deacon (2011). *Incomplete Nature: How Mind Emerged from Matter*, W.W. Norton & Company.

[Dennett 1995]

D.C. Dennett (1995) *Darwin's Dangerous Idea: Evolution and the Meanings of Life*, Penguin Press, London and New York,

#### •

# [Esfeld et al in press]

Esfeld M, Lazarovici D, Lam V, Hubert M (in press) The Physics and Metaphysics of Primitive Stuff. *British Journal for the Philosophy of Science* URL <u>http://arxiv.org/abs/1411.7545</u>

- Euclid, *Elements* <u>http://aleph0.clarku.edu/~djoyce/java/elements/toc.html</u> http://www.gutenberg.org/ebooks/21076
- Gottlob Frege, 1950, *The Foundations of Arithmetic: a logico-mathematical enquiry into the concept of number,* Oxford, B.H. Blackwell, (Tr. J.L. Austin. Original 1884),

[Fernando 2008]

Fernando C (2008) Review of "*The Principles of Life*" by Tibor Ganti. (2003, Oxford University Press.). *Artificial Life* 14(4):467-470, DOI 10.1162/artl.2008.14.4.14404

### [Fisher, Piterman, Vardi, 2011]

Jasmin Fisher and Nir Piterman and Moshe Y. Vardi, 2011, The Only Way is Up: On A Tower of Abstractions for Biology, in *Proc. 17th International Conference on Formal Methods,* Eds. M. Butler and W. Schulte, pp. 3--11, Springer-Verlag Berlin, Heidelberg, 978-3-642-21436-3, https://www.cs.rice.edu/~vardi/papers/fm11a.pdf

### •

# [Ganti 2003]

Ganti T (2003) *The Principles of Life.* OUP, New York, Eds. Eörs Szathmáry & James Griesemer, Translation of the 1971 Hungarian edition

# •

# [Goodwin 1995]

Brian Goodwin, 1995, Biology Is Just a Dance, in *The Third Culture: Beyond the Scientific Revolution*,

Ed. John Brockman, Simon & Schuster, online at: https://www.edge.org/documents/ThirdCulture/k-Ch.4.html

• J. J. Gibson, 1966, *The Senses Considered as Perceptual Systems*, Houghton Mifflin, Boston, MA.

### •

[Gibson 1979]

Gibson J.J. (1979) *The Ecological Approach to Visual Perception.* Houghton Mifflin, Boston, MA

- J. J. Gibson, 1979, *The Ecological Approach to Visual Perception,* Houghton Mifflin, Boston, MA,
- Rex Hartson (2003) [Recently discovered] Cognitive, physical, sensory, and functional affordances in interaction design, in *Behaviour* \& *Information Technology*, 22, 5, pp. 315--338, <u>http://www.tandfonline.com/doi/pdf/10.1080/01449290310001592587</u>
- Immanuel Kant Critique of Pure Reason (1781) This has relevant ideas and questions, but he lacked our present understanding of information processing (which is still too limited) <u>http://archive.org/details/immanuelkantscri032379mbp</u>

### [Kant 1781]

Kant I. (1781) *Critique of Pure Reason. Macmillan,* London, translated (1929) by Norman Kemp Smith

# •

[Karmiloff-Smith 1992]

Karmiloff-Smith A (1992) *Beyond Modularity: A Developmental Perspective on Cognitive Science.* MIT Press, Cambridge, MA An informal, personal, discussion/review of this work is available here: <u>http://www.cs.bham.ac.uk/research/projects/cogaff/misc/beyond-modularity.html</u>

- Annette Karmiloff-Smith (1992) Beyond Modularity, A Developmental Perspective on Cognitive Science, MIT Press --Informally reviewed in <u>http://www.cs.bham.ac.uk/research/projects/cogaff/misc/beyond-modularity.html</u>
- Annette Karmiloff-Smith, (1994). Precis of Beyond modularity: A developmental perspective on cognitive science, in *Behavioral and Brain Sciences* 17 (4): 693-745.

[Kauffman 1993]

Kauffman, S (1993) *The Origins of Order: Self-Organization and Selection in Evolution* Oxford University Press

### •

### [Kauffman 1995]

Kauffman S (1995) At home in the universe: The search for laws of complexity. Penguin Books, London

### •

[Keller 2008]

Keller EF (2008) Organisms, Machines, and Thunderstorms: A History of Self-Organization, Part One. in *Historical Studies in the Natural Sciences*, 38(1 (Winter)):45-75, URL <u>http://www.jstor.org/stable/10.1525/hsns.2008.38.1.45</u>

[Keller 2009]

Keller EF (2009) Organisms, Machines, and Thunderstorms: A History of Self-Organization, Part Two. Complexity, Emergence, and Stable Attractors. in *Historical Studies in the Natural Sciences* 39(1 (Winter)):1-31, URL <u>http://www.jstor.org/stable/10.1525/hsns.2009.39.1.1</u>

•

[Korthof 2003]

Korthof G (2003) Review of *The Principles of Life* by Tibor Ganti. URL <u>updated 6 Oct 2014</u> <u>http://wasdarwinwrong.com/korthof66.htm, updated 6 Oct 2014</u>

•

# [Laird et al 1987]

Laird J, Newell A, Rosenbloom P (1987) SOAR: An architecture for general intelligence. *Artificial Intelligence* 33:1-64

• Imre Lakatos, *Proofs and Refutations,* Cambridge University Press, 1976,

### •

[Lakatos 1980]

Lakatos I (1980) Falsification and the methodology of scientific research programmes. In: Worrall J, Currie G (eds) *Philosophical papers, Vol I,* Cambridge University Press, Cambridge, pp 8-101

# •

# [McCarthy and Hayes 1969]

McCarthy J, Hayes P (1969) Some philosophical problems from the standpoint of AI. In: Meltzer B, Michie D (eds) *Machine Intelligence 4*, Edinburgh University Press, Edinburgh, Scotland, pp 463-502, http://www-formal.stanford.edu/jmc/mcchay69/mcchay69.html

[McCarthy 1979]

McCarthy J (1979) Ascribing mental qualities to machines. In: Ringle M (ed) *Philosophical Perspectives in Artificial Intelligence, Humanities Press,* Atlantic Highlands, NJ, pp 161-195, <u>http://www-formal.stanford.edu/jmc/ascribing/ascribing.html</u>

- John McCarthy, 2008, The Well-Designed Child, in Artificial Intelligence 172, 18, pp.2003--2014, http://www-formal.stanford.edu/jmc/child.html
- Macpherson, F. (2010) "Impossible Figures", in *The Sage Encyclopedia of Perception*, Ed. E. Bruce Goldstein, Thousand Oaks, California: Sage Publications, Inc. <u>http://www.gla.ac.uk/media/media 127562 en.pdf</u>
- David Marr, 1982, Vision, W.H.Freeman, San Francisco,

[Mathis et al 2015]

Mathis C, Bhattacharya T, Walker S (2015) The Emergence of Life as a First Order Phase Transition. Tech. rep., Arizona State University, URL <u>http://arxiv.org/pdf/1503.02776</u>

• Roger B. Nelsen, (1993) *Proofs without words: Exercises in Visual Thinking,* Mathematical Association of America, Washington DC. (His name is often mis-spelled "Nelson")

### •

[Minsky 1987]

Minsky ML (1987) The Society of Mind. William Heinemann Ltd., London

[Minsky 2006]

Minsky ML (2006) The Emotion Machine. Pantheon, New York

- [Molinini-Euclid] Daniele Molinini, (2016), 'The Epistemological Import of Euclidean Diagrams (in a non-Euclidean world)', *Kairos. Journal of Philosophy and Science*, Vol 16, https://www.researchgate.net/publication/309887999 The Epistemological Import of Euclidean Diagrams in a non-Euclidean world/link/5825c19208ae61258e4607c3/download
- Alison Pease, Simon Colton, Ramin Ramezani, Alan Smaill and Markus Guhe, (2010), Using Analogical Representations for Mathematical Concept Formation, in *Model-Based Reasoning in Science & Technology*, Eds. L. Magnani et al, Springer-Verlag, pp. 301-314, 2010, http://bemepages.inf.ed.eo.uk/apages/pages

http://homepages.inf.ed.ac.uk/apease/papers/pease\_mbr09.pdf

- Roger Penrose, (1992), On the Cohomology of Impossible Figures, *Leonardo, Visual Mathematics: Special Double Issue* 25.3/4, pp. 245-247. The MIT Press, <a href="http://www.jstor.org/stable/1575844">http://www.jstor.org/stable/1575844</a>,
- Roger Penrose, 1994, *Shadows of the mind: A Search for the Missing Science of Consciousness*, OUP, Oxford,

### •

[Penrose 1994]

Penrose R (1994), Shadows of the mind: A Search for the Missing Science of Consciousness. OUP, Oxford

- Jean Piaget, 1952, *The Child's Conception of Number,* Routledge & Kegan Paul, London,
- Jean Piaget (1981,1982) Much of Jean Piaget's work is relevant, especially his last two (closely related) books written with his collaborators: *Possibility and Necessity* (1981/1983)
  - Vol 1. The role of possibility in cognitive development (1981) Vol 2. The role of necessity in cognitive development (1983) Tr. by Helga Feider from French in 1987

Also much of his earlier work, e.g. Piaget (1952) above.

Like Kant, Piaget had deep observations and intuitions about what needed to be explained, but lacked an understanding of information processing mechanisms, required for explanatory theories, especially explanations of possibilities. (Sloman, 2014)

 Jean Piaget (1981,1982) Much of Jean Piaget's work is relevant, especially his last two (closely related) books written with his collaborators:
 Possibility and Necessity (1981/1983)

Possibility and Necessity (1981/1983)

Vol 1. The role of possibility in cognitive development (1981) Vol 2. The role of necessity in cognitive development (1983) Tr. by Helga Feider from French in 1987

[Piaget, 1981]

Piaget, Jean, et al. 1981, *Possibility and Necessity Vol 1. The role of possibility in cognitive development,* U. of Minnesota Press, Tr. by Helga Feider from French in 1987,

#### •

#### [Piaget, 1983]

Piaget, Jean, et al. 1983 *Possibility and Necessity Vol 2. The role of necessity in cognitive development,* U. of Minnesota Press, Tr. by Helga Feider from French in 1987,

#### [Popper 1934]

Popper K (1934), The logic of scientific discovery. Routledge, London

### •

### [Popper 1976]

Popper K (1976) Unended Quest. Fontana/Collins, Glasgow

#### [Popper 1978]

Popper K (1978) Natural Selection and the Emergence of Mind. *Dialectica* 32(3-4):339-355, URL <u>http://dx.doi.org/10.1111/j.1746-8361.1978.tb01321.x</u>

#### •

### [Powers 1973]

Powers WT (1973) Behavior, the Control of Perception. Aldine de Gruyter, New York

• L. G. Roberts, 1965, Machine perception of three dimensional solids, in *Optical and Electro-optical Information Processing* Eds. J.P. Tippett et al., MIT Press, Cambridge, MA,

#### •

# [Schrödinger 1944]

Schrödinger E (1944). *What is life?* CUP, Cambridge Extracts from this book, with some added comments, and a note added in the 1955 edition, can be found here: http://www.cs.bham.ac.uk/research/projects/cogaff/misc/schrodinger-life.html

### [Seckbach & Rampelotto (2015)]

J. Seckbach and P. H. Rampelotto, 2015, Chapter 8: Polyextremophiles, in *Microbial Evolution under Extreme Conditions*, Ed. Corien Bakermans. DeGruyter pp 153-170

• Jean Sauvy and Simonne Sauvy, with an introduction by Bill Brookes The Child's Discovery of Space: From hopscotch to mazes -- an introduction to intuitive topology,

Penguin Education, Harmondsworth, 1974. Translated from the French by Pam Wells,

[Senghas 2005]

Senghas A (2005) Language Emergence: Clues from a New Bedouin Sign Language. *Current Biology* 15(12):R463-R465, <u>http://dx.doi.org/10.1016/j.cub.2005.06.018</u>

### •

# [Shannon 1948]

Shannon C (1948) A mathematical theory of communication. *Bell System Technical Journal* 27:379-423 and 623-656

 Susanna Siegel, (2014), Affordances and the Contents of Perception, in *Does Perception Have Content?* Ed. B. Brogaard, OUP, pp. 39--76, <u>http://philpapers.org/rec/SIEAAT</u>

### •

[Simon 1967]

Simon HA (1967) Motivational and emotional controls of cognition. reprinted In: Simon HA (ed) in *Models of Thought,* Yale University Press, Newhaven, CT, pp 29-38

 Aaron Sloman, (1962), Knowing and Understanding: Relations between meaning and truth, meaning and necessary truth, meaning and synthetic necessary truth, DPhil Thesis, Oxford University,

http://www.cs.bham.ac.uk/research/projects/cogaff/62-80.html#1962-01

•

# [Sloman 1962]

Sloman A (1962) *Knowing and Understanding: Relations between meaning and truth, meaning and necessary truth, meaning and synthetic necessary truth* PhD thesis, Oxford University, <u>http://www.cs.bham.ac.uk/research/projects/cogaff/07.html#706</u>

# •

# [Sloman 1969]

Sloman A (1969) How to derive "better" from "is". *American Phil Quarterly* 6:43-52, URL <u>http://www.cs.bham.ac.uk/research/projects/cogaff/62-80.html#1969-02</u>

•

# [Sloman 1970]

Sloman A (1970) "Ought" and "better". *Mind* LXXIX(315):385-394, URL http://www.cs.bham.ac.uk/research/projects/cogaff/62-80.html#1970-01

[Sloman 1971]

Sloman A (1971) Tarski, Frege and the Liar Paradox. In *Philosophy* 46(176):133-147, http://www.cs.bham.ac.uk/research/projects/cogaff/62-80.html#1971-03

- Aaron Sloman (1971), Interactions between philosophy and AI: The role of intuition and non-logical reasoning in intelligence, in *Proceedings 2nd IJCAI*, 1971, pp. 209--226, London, William Kaufmann, Reprinted in *Artificial Intelligence*, vol 2, 3-4, pp 209-225, 1971. <u>http://www.cs.bham.ac.uk/research/cogaff/62-80.html#1971-02</u> This was the basis of <u>Chapter 7</u> of <u>Sloman (1978)</u>.
- Aaron Sloman (1978), The Computer Revolution in Philosophy: Philosophy, Science and Models of Mind, Harvester Press (and Humanities Press), Hassocks, Sussex, http://www.cs.bham.ac.uk/research/cogaff/62-80.html#crp

# [Sloman 1983]

Sloman A (1983) Image interpretation: The way ahead? In: *Physical and Biological Processing of Images* (Proceedings of an international symposium organised by The Rank Prize Funds, London, 1982.), Eds. Braddick O, Sleigh A, Springer-Verlag, Berlin, pp 380-401, <u>http://www.cs.bham.ac.uk/research/projects/cogaff/81-95.html#57</u>

### •

# [Sloman 1993]

Sloman A (1993) The mind as a control system. In: Hookway C, Peterson D (eds) *Philosophy and the Cognitive Sciences*, Cambridge University Press, Cambridge, UK, pp 69-110, <u>http://www.cs.bham.ac.uk/research/projects/cogaff/81-95.html#18</u>

# •

[Sloman 1996a]

Sloman A (1996a) Actual possibilities. In: Aiello L, Shapiro S (eds) Principles of Knowledge Representation and Reasoning: Proc. 5th Int. Conf. (KR '96), Morgan Kaufmann Publishers, Boston, MA, pp 627-638, URL http://www.cs.bham.ac.uk/research/cogaff/96-99.html#15

Aaron Sloman, (1996) Actual Possibilities, in *Principles of Knowledge Representation and Reasoning: Proc. 5th Int. Conf. (KR '96)*, Eds. L.C. Aiello and S.C. Shapiro, Morgan Kaufmann Publishers, Boston, MA, 1996, pp. 627--638, <a href="http://www.cs.bham.ac.uk/research/cogaff/96-99.html#15">http://www.cs.bham.ac.uk/research/cogaff/96-99.html#15</a>

### •

# [Sloman 1996b]

Sloman A (1996b) The SimAgent Toolkit - for Philosophers and Engineers (And Some Biologists, Psychologists and Social Scientists). Http://www.cs.bham.ac.uk/research/projects/poplog/packages/simagent.html

### •

# [Sloman 2003]

Sloman A (2003) The Cognition and Affect Project: Architectures, Architecture-Schemas,

And The New Science of Mind. Tech. rep., School of Computer Science, University of Birmingham, Birmingham, UK, URL

http://www.cs.bham.ac.uk/research/projects/cogaff/03.html#200307 (Revised August 2008)

#### •

[Sloman 2006]

Sloman A (2006) Requirements for a Fully Deliberative Architecture (Or component of an architecture). Research Note COSY-DP-0604, School of Computer Science, University of Birmingham, Birmingham, UK, URL

http://www.cs.bham.ac.uk/research/projects/cogaff/misc/fully-deliberative.html

#### •

[Sloman 2008]

Sloman A (2008) Evolution of minds and languages. What evolved first and develops first in children: Languages for communicating, or languages for thinking (Generalised Languages: GLs)? Slide presentation, University of Birmingham.) URL <a href="http://www.cs.bham.ac.uk/research/projects/cogaff/talks/#glang">http://www.cs.bham.ac.uk/research/projects/cogaff/talks/#glang</a>

• Aaron Sloman, 2008, The Well-Designed Young Mathematician, *Artificial Intelligence*, 172, 18, pp. 2015--2034, http://www.cs.bham.ac.uk/research/projects/cogaff/08.html#806

### •

[Sloman 2009]

Sloman A (2009) Architecture-Based Motivation vs Reward-Based Motivation. *Newsletter on Philosophy and Computers*, 09(1):10-13,

http://www.cs.bham.ac.uk/research/projects/cogaff/misc/architecture-based-motivation.html

# •

[Sloman 2010]

Sloman A (2010) How Virtual Machinery Can Bridge the "Explanatory Gap", In *Natural and Artificial Systems. Proceedings SAB 2010,* In: Doncieux S, et al (eds) LNAI 6226, Springer, Heidelberg, pp 13-24,

http://www.cs.bham.ac.uk/research/projects/cogaff/10.html#sab

### •

[Sloman 2011]

Sloman A (2011) What's information, for an organism or intelligent machine? How can a machine or organism mean? In: Dodig-Crnkovic G, Burgin M (eds) *Information and Computation,* World Scientific, New Jersey, pp 393-438, URL <a href="http://www.cs.bham.ac.uk/research/projects/cogaff/09.html#905">http://www.cs.bham.ac.uk/research/projects/cogaff/09.html#905</a>

[Sloman 2013a]

Sloman A (2013a) Virtual Machine Functionalism (The only form of functionalism worth taking seriously in Philosophy of Mind and theories of Consciousness). Research note, School of Computer Science, The University of Birmingham, URL <a href="http://www.cs.bham.ac.uk/research/projects/cogaff/misc/vm-functionalism.html">http://www.cs.bham.ac.uk/research/projects/cogaff/misc/vm-functionalism.html</a>

## [Sloman 2013b]

Sloman A (2013b) Virtual machinery and evolution of mind (part 3) meta-morphogenesis: Evolution of information-processing machinery. In: Cooper SB, van Leeuwen J (eds) *Alan Turing - His Work and Impact,* Elsevier, Amsterdam, pp 849-856, URL <u>http://www.cs.bham.ac.uk/research/projects/cogaff/11.html#1106d</u>

•

# [Sloman 2013c]

Aaron Sloman, (2013c) Meta-Morphogenesis and Toddler Theorems: Case Studies, Online discussion note, School of Computer Science, The University of Birmingham, http://goo.gl/QgZU1g

### •

# [Sloman 2015]

Aaron Sloman, (2015) Some (possibly) new considerations regarding impossible objects. Online discussion note, School of Computer Science, The University of Birmingham, <u>http://www.cs.bham.ac.uk/research/projects/cogaff/misc/impossible.html</u>

- A. Sloman and R.L. Chrisley, (2003), Virtual machines and consciousness, in *Journal of Consciousness Studies* 10, 4-5, pp. 113--172, http://www.cs.bham.ac.uk/research/projects/cogaff/03.html#200302
- Aaron Sloman, (2008)

Architectural and Representational Requirements for Seeing Processes, Proto-affordances and Affordances, in *Logic and Probability for Scene Interpretation*, Eds. A.G. Cohn, D.C. Hogg, Ralf Moeller & Bernd Neumann, Dagstuhl Seminar Proceedings, No 08091, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, 2008, <u>http://www.cs.bham.ac.uk/research/projects/cogaff/08.html#806</u> (And several other closely related papers.)

- Aaron Sloman, (2006,--) Requirements for a Fully Deliberative Architecture (Or component of an architecture), Originally: CoSy Project Research Note, COSY-DP-0604, University of Birmingham, UK, http://www.cs.bham.ac.uk/research/projects/cogaff/misc/fully-deliberative.html
- A. Sloman, (2009a). Some Requirements for Human-like Robots: Why the recent over-emphasis on embodiment has held up progress. In B. Sendhoff, E. Koerner, O. Sporns, H. Ritter, and K. Doya, editors, *Creating Brain-like Intelligence*, pp 248-277. Springer-Verlag, Berlin http://www.cs.bham.ac.uk/research/projects/cogaff/09.html#912
- A. Sloman, (2009b) Architecture-Based Motivation vs Reward-Based Motivation, in Newsletter on Philosophy and Computers, American Philosophical Association, 09, 1, pp. 10--13, Newark, USA.
   http://www.cs.bham.ac.uk/research/projects/cogaff/misc/architecture-based-motivation.html
- A. Sloman (2012), Hidden Depths of Triangle Qualia: The Median Stretch, Side Stretch, and Triangle Area Theorems (Discussion note). <u>http://www.cs.bham.ac.uk/research/projects/cogaff/misc/triangle-theorem.html</u>

- Aaron Sloman, 2013, Virtual Machine Functionalism (The only form of functionalism worth taking seriously in Philosophy of Mind and theories of Consciousness), *Research Note,* School of Computer Science, The University of Birmingham, http://www.cs.bham.ac.uk/research/projects/cogaff/misc/vm-functionalism.html
- <u>http://www.cs.bham.ac.uk/research/projects/cogaff/misc/explaining-possibility.html</u> Aaron Sloman (2014) Using construction kits to explain possibilities
- Aaron Sloman, 2015 (and earlier) What are the functions of vision? How did human language evolve? (Online tutorial presentation, University of Birmingham.) <u>http://www.cs.bham.ac.uk/research/projects/cogaff/talks/#talk111</u>

[Sloman 2013c]

Aaron Sloman, (2013c) Meta-Morphogenesis and Toddler Theorems: Case Studies, Online discussion note, School of Computer Science, The University of Birmingham, http://goo.gl/QgZU1g

### •

[Sloman 2014ck]

Aaron Sloman, (2014, with revisions), Construction kits for evolving life (Including evolving minds and mathematical abilities.)

The scientific/metaphysical explanatory role of construction kits: fundamental and derived kits, concrete, abstract and hybrid kits, meta-construction kits.

http://www.cs.bham.ac.uk/research/projects/cogaff/misc/construction-kits.html

•

# [Sloman 2015]

Aaron Sloman, (2015) Some (possibly) new considerations regarding impossible objects. Online discussion note, School of Computer Science, The University of Birmingham, http://www.cs.bham.ac.uk/research/projects/cogaff/misc/impossible.html

• Aaron Sloman, Jackie Chappell and the CoSy PlayMate team, 2006 (and after) Orthogonal Recombinable Competences Acquired by Altricial Species (Blankets, string, and plywood),

http://www.cs.bham.ac.uk/research/projects/cogaff/misc/orthogonal-competences/ School of Computer Science, University of Birmingham, Research Note, COSY-DP-0601, Birmingham, UK,

- Jackie Chappell and Aaron Sloman, (2007), Two ways of understanding causation: Humean and Kantian, Two Presentations at WONAC: International Workshop on Natural and Artificial Cognition, Pembroke College, Oxford, June 25-26, 2007 <u>http://www.cs.bham.ac.uk/research/projects/cogaff/talks/wonac</u>
- D'Arcy Wentworth Thompson (1917/1992) *On Growth and Form.* The Complete Revised Edition (Dover Books on Biology) Originally published 1917. <u>http://www.amazon.com/On-Growth-Form-Complete-Revised/dp/0486671356/ref=cm\_cr\_pr\_orig\_subj</u>

- A. M. Turing, (1952), 'The Chemical Basis Of Morphogenesis', in *Phil. Trans. R. Soc. London B 237*, 237, pp. 37--72. (Also reprinted(with commentaries) in <u>S. B. Cooper and J. van Leeuwen, EDs (2013)</u>). A useful summary for non-mathematicians is
- Philip Ball, 2015, Forging patterns and making waves from biology to geology: a commentary on Turing (1952) 'The chemical basis of morphogenesis', *Royal Society Philosophical Transactions B*, <u>http://dx.doi.org/10.1098/rstb.2014.0218</u>
- Emre Ugur, 2010, *A Developmental Framework for Learning Affordances,* (PhD thesis) The Graduate School of Natural and Applied Sciences, Middle East Technical University, Ankara, Turkey, http://www.cns.atr.jp/~emre/papers/PhDThesis.pdf
- Stephen Wolfram (2007), Mathematics, Mathematica and Certainty Wolfram Blog December 8, 2007 http://blog.wolfram.com/2007/12/08/mathematics-mathematica-and-certainty/
- Mutilated chessboard problem
  https://en.wikipedia.org/wiki/Mutilated chessboard problem