

Another letter concerning my contribution drafted for the 30th ATTC at NSWC Carderock

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From: Michael Schmiechen

Sent: Friday, September 15, 2017 3:02 PM

To: John Hoyt III

Subject: Another mail

Dear John,

after having put my wife Susanne onto a train and having dispatched the leaflets attached with a call for papers to be distributed at the ITTC I finally find the time to read and write in a very relaxed mood. Yesterday I read another paper on deep learning and this paper is the final trigger for this mail.

But first of all I would like to thank you again for motivating me to write a 'new' paper and for going through all the trouble with your committee and my 'peers'.

The paper mentioned is concerned with the fact, that artificial neuronal networks are still (?) suffering among others from the same limitation as the networks under human skulls. They are trained and thus 'spoiled' by the necessarily limited (!) range of information offered. Many years ago using my 'brain maker' I learned, that the information provided even needs to be randomised, else the brains are spoiled right away.

But we humans have the capability to avoid that trap, provided (!) we are open for new information, which does not fit our 'prejudices', and if we 'digest' that information! I read preferably papers opposed to my prejudices, as this is the only way to learn something new. And the adoption of any new information takes place in the ongoing dialectical procedure, by moving from thesis and anti-thesis to synthesis.

'Dialectic' is not to be confused with 'debate', which has a winner, often 'declared' by group consensus! (Wikipedia). As 'minority' I cannot possibly be the winner, thus I try to convince my colleagues jointly to solve our problems. And in the dialectic process my prejudices are of course changing, hopefully not too often and too much meandering.

Concerning the draft contribution I submitted I note, that the development I have summarised 'in plain' terms' took place since 1961. In a short paper I could of 'cause' only refer to the problems and the solutions so far. That there are problems is not my fault! I have 'only' clearly identified them and drawn the conclusions, 'in plain terms': I have 'consequently' developed solidly based solutions to maturity.

The parable of the sower (*e. g.* St. Luke 8, 4-15) summarises this and my former note, my draft paper, in fact all my work over the past decades most efficiently in every detail. And it ends with the appropriate advice: 'He that hath ears to hear, let him hear.' When I was permitted to give a talk at DTNSRDC at least one colleague used his ears.

Yours, Michael.

Berlin, 2017.09.16