

“Non-classical computing” summary talk, Newcastle, BCS Grand Challenge Workshop 2004

Derek Partridge, D.Partridge@exeter.ac.uk

GC7(plus 0)

To enrich the pool of alternative computational paradigms.

Will lead to:

Richer theory of computation (with educational implications)

More computational choice, which in turn will lead to increases in efficiency and decreases in complexity of software.

Impact

Break out of the constraints of (single paradigm) classical computation

This will result in:

**Simpler
More Powerful
New applications**

Public benefits?

If really successful then transparency of computational medium should mean that system users ‘see’ only the performance benefits such as those listed above.

GC7 will provide the computational substrate upon which all other GCs will build, and the better the resultant enriched science of computation, the better the chances of success of the other GCs