

- 7 **Foreword**
- 8 **Introduction**

10 **COMPUTABILITY NUMBERS, CODES AND ALGORITHMS**

- 17 **Clay numbers** Cuneiform tablet, circa 2500 BCE
- 21 **Dots and dashes** Functioning model of a Morse telegraph, circa 1890
- 25 **Cracked codes** Enigma I encryption machine, 1939
- 29 **Calculating with holes** D 11 tabulating machine, 1940s
- 33 **When weather became predictable** Cray 2 supercomputer, 1988
- 37 **Calculated hearing** Mp3 player, prototype, 1994

40 **ACCELERATION ONGOING AND WITHOUT END**

- 47 **Overcoming time and space** Transatlantic cable, 1858
- 51 **On the pulse of the market** Exchange telegraph, 1899
- 55 **A library in a desk** Memex, 1945/2015
- 59 **Phone call with a picture** Videoconference equipment, 1977
- 63 **Always on call** Miriam Meckel's cellphone, 2007
- 67 **The digital debate** #aufschrei printer, 2013

70 **OMNIPRESENCE THE EVERYWHERE NETWORK**

- 77 **The initial spark** Guglielmo Marconi's spark-gap transmitter, 1895/2010 (replica)
- 81 **Attack of the computer viruses** The Three Investigators audio cassette, 1992
- 85 **The first smartphone** Simon Personal Communicator, 1994
- 89 **Almost all roads lead to Frankfurt** Internet switch, 2006
- 93 **Ah, future!** Google Glass, 2013
- 97 **Voice control** Amazon Echo, 2017

100 **CONTROL**
107 **I'LL BE WATCHING YOU**

- 107 **The surveilled sky** Computer module from the SAGE system, circa 1960
111 **Eavesdropping on the line** Reel-to-reel tape recorder, circa 1980
115 **Freedom not Fear** Otto the data octopus, 2008
119 **Automatic self-control** Smart toilette, prototype, 2011
123 **The data business** A stack of paper with Facebook data, 2011
127 **In the crosshairs of the intelligence services** Demolished motherboard, 2013

130 **PARTICIPATION**
137 **TAKING PART, GETTING INVOLVED AND SHARING**

- 137 **Photos by everyone for everyone** Brownie box camera, circa 1928
141 **Game without limits** Modem Wars computer game, 1988
145 **Wikipedia offline** Banner stand with QR Code, 2012
149 **Ready to go** Blogger bag, 2012
153 **Creating an individual network** Tin Can Antenna, 2013
157 **The protest mask** Guy Fawkes, 2015

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