

B.E. Carpenter - Main Publications

(Technical reports, minor articles and unpublished conference presentations not included.)

1. M.Sc. Thesis, *An evaluation of some techniques for automatic speech recognition*, University of Manchester, 1968.
2. Ph.D. Thesis, *Some experiments in automatic speech recognition*, University of Manchester, 1970.
3. (with S.Lavington), *The influence of human factors on the performance of a real-time speech recognition system*, J. Acoustic Soc. Am. **53** (1973) 42-45. Reprinted in: M.E. Hawley (ed.), *Speech intelligibility and speaker recognition*, Halsted Press, Vol. 11 of *Benchmark papers in acoustics* (1977) 366-369.
4. *Experience with interactive control software at the CERN proton synchrotron*, IEE Conf. 'Software for Control', 1973
5. (D.Boussard, M.Bouthéon, P.Lefèvre, J.P.Potier), *Injection and trapping of the beam at 800MeV in the CPS*, Proc. IXth International Conf. on High Energy Accelerators, 475 (Stanford, 1974)
6. (with R.W.Doran), *The other Turing machine*, Computer J. **20** (1977) 269.
7. (with R.W.Doran, K.Hopper), *Non-recursive recursion*, Software Practice and Experience **7** (1977) 263.
8. (with P.C.Jenkins, L.W.Pearson, L.K.Thomas), *MUSIC: a simulated computer for teaching purposes*, ACM SIGCSE Bull., Dec 1977.
9. (with A.Daneels and F.Perriollat), *The planned replacement of a functioning control system*, IEE Conf. 'Trends in On-line Computer Control Systems', 1979.
10. (G.Baribaud, S.Battisti, 18 others), *The improvement project for the CPS controls*, IEEE Trans. Nucl. Sci. **NS -26** (1979) 3272.
11. (G.Baribaud, S.Battisti, 24 others), *Start-up of the new CPS controls system*, IEEE Trans. Nucl. Sci. **NS -28** (1981) 2267.
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13. (with R.Cailliau and I.Killner), *Early experience with the Programming Language P+*, ACM International Computing Symposium (Nürnberg, 1983).
14. (with R.Cailliau and J.Kenaghan), *Users' experience with an Ada-like language*, Ada-UK Annual Conf., York, Jan. 1984, Ada-UK News **5** (1) (1984) 45.
15. (with R.Cailliau), *Experience with remote procedure calls in a real-time control system*, Software Practice and Experience **14** (1984) 901.
16. (with R.Cailliau), editors of *Software support for Motorola 68000 microprocessor at CERN: CERN convention for programming the MC68000 family*, CERN 84-12 (1984).
17. (with R.Cailliau, G.Cuisinier, W.Remmer), *System software of the CERN Proton Synchrotron control system*, CERN 84-16 (1984).
18. (with W.Heinze, R.Cailliau, G.Cuisinier, A.Gagnaire, F.Periollat, W.Remmer), *SMACC : MC68000 auxiliary crate controller for CAMAC* (presented at 11th IEEE Particle Accelerator Conference, Vancouver, May 1985), IEEE Trans. Nucl. Sci. **NS-32(5)**2041-2043 (1985)
19. *Computer Communications at CERN*, Conf. 'Computing in High Energy Physics', Amsterdam, June 1985, proceedings ed. L.O.Hertzberger and W.Hoogland, North-Holland, 1986.
20. (with R.W.Doran), editors of *A.M.Turing's ACE Report of 1946 and other papers*, Vol. 10 in the Charles Babbage Institute Reprint Series, MIT Press, 1986.

21. (with F.Fluckiger, J.M.Gerard, D.Lord, B.Segal), *Two Years of Real Progress in European HEP Networking*, Conf. 'Computing in High Energy Physics', Asilomar, California, February 1987, *Computer Physics Communications* **45** (1987) 83.
22. *COSINE Implementation Phase: the View from a Major Site*, RARE Networkshop 1988, *Computer Networks and ISDN Systems*, **16** (1988) 121.
23. *Is OSI Too Late?*, RARE Networkshop 1989, *Computer Networks and ISDN Systems*, **17** (1989) 284.
24. (with J.Joosten) *The CERN FDDI Pilot Project*, 1st Joint European Networking Conference, *Computer Networks and ISDN Systems*, **19** (1990) 304.
25. (with J.Altaber, S.Cannon, 17 others) *CHEOPS: Really Using a Satellite*, 2nd Joint European Networking Conference, *Computer Networks and ISDN Systems*, **23** (1991) 139.
26. (with L.H.Landweber and R.Tirler) *Where are we with Gigabits?*, *IEEE Network*, **6** (1992) 10.
27. (with D.O.Williams) *Data Networking for the European Academic and Research Community: Is It Important?*, *Electronic Networking - Research, Applications and Policies*, **2** (1992) 56-65.
28. (with D.O.Williams) *The Importance of Being Networked*, *Physics World*, June 1992.
29. (with J.Altaber, S.Cannon, D.Davids, C.Isnard, J-M.Jouanigot, G.Barreira, F.Raposo, E.Efthymiopoulos, P.Kokkinas, P.Mantakas, S.Simonen) *CHEOPS: An Efficient Data Dissemination System*, Proc. Conf. Computing in High Energy Physics, Annecy, Sept. 1992, CERN 92-07 (1992)
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31. (contributor to) *IPng: Internet Protocol Next Generation*, S.Bradner and A.Mankin (ed.), **Addison-Wesley**, 1995. Contribution originally published as 'IPng White Paper on Transition and Other Considerations', Internet Request for Comments RFC 1671 (1994).
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35. *Interoperability among heterogeneous communications networks - an IETF perspective*, *Computer Standards & Interfaces*, **20** (1998) 147-149.
36. *What's all the fuss about differentiated services?*, *IEEE Computer*, June 1999, 111-112
37. (with D.Kandlur) *Diversifying Internet delivery*, *IEEE Spectrum*, November 1999, 57-61
38. (with K.Moore and B.Fink) *Connecting IPv6 Routing Domains over the IPv4 Internet*, *The Internet Protocol Journal*, **3**(1) (2000) 2-10
39. (with K. Nichols) *Differentiated Services in the Internet*, *Proc. IEEE*, **90** (9) (2002) 1479-1494
40. *Future applications and middleware, and their impact on the infrastructure*, *Future Generation Computer Systems*, **19** (2003) 191-197
41. (with P. Janson) *Abstract interdomain security assertions: A basis for extra-grid virtual organizations*, *IBM Systems Journal*, **43**(4) (2004) 689-701
42. *Better, Faster, More Secure: Who's in charge of the Internet's future?*, *ACM Queue*, **4**(10) (2006) 42-48
43. (with C. Calude) *A dialogue on the Internet*, *Bulletin of the European Association for Theoretical Computer Science* **95**, June 2008, pp. 24-34.
44. *Observed Relationships between Size Measures of the Internet*, *ACM SIGCOMM CCR*, **39**(2) (April 2009) 6-12

45. (contributor to) *A History of International Research Networking: the People who Made it Happen*, Howard Davies & Beatrice Bressan (ed), ISBN: 978-3-527-32710-2, **Wiley**, 2010.
46. (with C. Partridge) *Internet Requests for Comments (RFCs) as Scholarly Publications*, ACM SIGCOMM CCR, 40(1) (January 2010) 31-33.
47. (with H. Naderi) *A Performance Study on REAchability Protocol in Large Scale IPv6 Networks*, Second International Conference on Computer and Network Technology (ICCNT 2010), Bangkok, (April 2010) 28-32
48. (with D. Lee and N. Brownlee) *Observations of UDP to TCP Ratio and Port Numbers*, Fifth International Conference on Internet Monitoring and Protection (ICIMP 2010), Barcelona, (May 2010)
49. (with H. Naderi) *A Review of IPv6 Multihoming Solutions*, Tenth International Conference on Networks (ICN 2011), St. Maarten, (January 2011) 145-150
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51. (with D. Lee and N. Brownlee) *Media Streaming Observations: Trends in UDP to TCP Ratio*, International Journal on Advances in Systems and Measurements, 3(3 & 4)(2010) 147-162
52. (with L. Qian) *Some Observations on Individual TCP Flows Behavior in Network Traffic Traces*, The 11th IEEE International Symposium on Communications and Information Technologies (ISCIT 2011), (October 2011) 354-359, Hangzhou, China.

Author, co-author or editor of IETF RFCs 1671, 1888, 1900, 1958, 2101, 2529, 2732, 2768, 2775, 2836, 2850, 2860, 3056, 3086, 3140, 3234, 3248, 3697, 3879, 4048, 4371, 4775, 4864, 5887, 5954, 6036, 6214, 6264, 6294, 6343, 6385, 6436, 6437, 6438, 6563.

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