

List of Dewi Jones's publications.

Journal Papers

1. 1979, Finch, JW, Jones, DI, *Optimal Control of Reluctance Devices*, Proc IEE, 126 (1), 81-86.
2. 1983, Jones, DI, *An instrument for measuring step motor characteristics*, International Journal of Electrical Engineering Education, 20, 215-222.
3. 1983, Jones, DI, Finch, JW, *Optimal control of a voltage-driven stepping motor*, Proc IEE Pt D, 130(4), 175-182.
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5. 1984, Jones, DI, Owen, RG, *A magnetically levitated anti-vibration mount*, Trans IEEE Magnetics, MAG-20 (5), 1687-1689.
6. 1985, Jones, DI, *Response improvements in industrial DC drives derived from optimal analysis*, Proc IEE Pt B, 3, 171-173.
7. 1985, Jones, DI, *Occam structures in control applications*, Trans Inst M.C., 7(5), 222-227
8. 1985, Jones, DI, Stedham, DJ, Sackville-Hamilton, NR, *Measurement of plant growth in three dimensions*, Trans Inst M.C., 7(3), 145-150
9. 1986, Jones, DI, Lorenz, MH, *An application of a Markov chain noise model to wind generator simulation*, Mathematics & Computers in Simulation, 28(5), 391-402
10. 1986, Owen, RG, Jones, DI, *Multivariable control of an active anti-vibration platform*, Trans IEEE Magnetics, MAG-22 (5), 523-525
11. 1987, Jones, DI, Owens, AR, Owen, RG, *A microgravity isolation mount*, Acta Astronautica, 15(5/6), 441-448.
12. 1989, Jones, DI, *Parallel architectures for real-time control*, IEE Electronics & Communications Engineering Journal, 1(5), 217-223.
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16. 1992, Ruano, AEB, Fleming, PJ, Jones, DI, *A connectionist approach to PID autotuning*, Proc IEE Pt D, 139(3), 279-285.
17. 1993, Owen, RG, Jones, DI, Owens, AR, Robinson, AA, *Mechanical design and simulation of a microgravity isolation mount*, AIAA Journal of Spacecraft & Rockets, 30(4), 502-508
18. 1994, Jones, DI, *Vibration Control in Space*, IEE Computing and Control Engineering Journal, 5(2), 89-95.
19. 1995, Ruano, AEB, Fleming, PJ, Jones, DI, *An efficient parallel implementation of a least squares problem*, Computing Systems in Engineering, 6 (4/5), 313-318.
20. 1996, Jones, DI, Owens, AR, Owen, RG, *A control system for a Microgravity Isolation Mount*, IEEE Trans Control Systems Technology, 4(4), 313-325.
21. 1996, Solano, J, Jones, DI, *Parallel computation of configuration space*, Robotica, 14 (2), 205-212.
22. 1996, Ginis, C, Carelli, R, Jones, DI, Zavalla, E, *Parallel computation of a control algorithm for a robot manipulator*, IFAC Control Engineering Practice, 4(2), 179-186.
23. 1999, Jones, DI, *Multivariable control analysis of a hydraulic turbine*, Trans Inst MC, 21 (2/3), 122-136.
24. 2000, Jones, DI, *Aerial inspection of overhead power lines using video : estimation of image blurring due to vehicle and camera motion*, Proc IEE Vision, Image and Signal Processing, 147(2), 157-166.
25. 2000, Mansoor, SP, Jones, DI, Bradley, DA, Aris, FC, Jones, GR, *Reproducing oscillatory behaviour of a hydroelectric power station by computer simulation*, IFAC Control Engineering Practice, 8(11), 1261-1272.
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27. 2001, Williams, M, Jones, DI, *A rapid method for planning paths in three dimensions for a small aerial robot*, Robotica, 19(2), 125-135.
28. 2001, Jones, DI, Earp, GK, *Camera sightline pointing requirements for aerial inspection of overhead power lines*, Electric Power Systems Research 57(2), 73-82.
29. 2001, Williams, M, Jones, DI, Earp, GK, *Obstacle avoidance during aerial inspection of power lines*, Aircraft Engineering & Aerospace Technology, 73(5), 472-479.
30. 2003, Mansoor, SP, Jones, DI, Bradley, DA, Aris, C, Jones, GR, *Hardware-in-the-loop simulation of a pumped storage hydro station*, IASTED Journal of Power and Energy Systems, 23(2), 127-133.

31. 2003, Couchman, A, Jones, DI, Griffiths, KD, *Predicting the future performance of a clinical biochemistry laboratory by computer simulation*, Simulation Modelling: Practice and Theory, 10(8), 473-495.
32. 2003, Powell, SM, Jones, DI, Rowlands, AV, *Technical variability of the RT3 accelerometer*, Medicine and Science in Sport and Exercise, 35(10), 1773-1778.
33. 2003, Golightly, I, Jones, DI, *Corner detection and matching for visual tracking during power line inspection*, Image & Vision Computing Journal, 21 (9), 827-840.
34. 2004, Jones, DI, Aris, FC, Bradley, DA, Mansoor, SP, Jones, GR, King, DJ, *A standard method for specifying the response of hydroelectric plant in frequency-control mode*, Electric Power Systems Research, 68(1), 19-32.
35. 2004, Jones, DI, *Estimation of power system parameters*, IEEE Trans Power Systems, 19(4), 1980-1989.
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42. 1983, Jones, DI, *Open loop desensitised controls for a step motor*, Proc Int Symposium on Applied Control and Identification, Copenhagen, 1/24-29.
43. 1985, Owen, RG, Jones, DI, *An anti-vibration platform using active suspension*, Proc MT-9 Magnetic Technology Conference, Zurich, 347-350.
44. 1986, Jones, DI, Entwistle, P, *A parallel processor approach to the inverse dynamics problem of a robot manipulator*, Proc 10th Annual Workshop on Microcomputer Applications, Univ Strathclyde.
45. 1987, Jones, DI, *Computational aspects of robotic experiment manipulation in a microgravity environment*, Proc First European In-Orbit Operations Technology Symposium, Darmstadt, Germany, 245-252.
46. 1987, Jones, DI, *Simulated velocity profiles for a stepping motor*, Proc UKSC87 Conf on Computer Simulation (ed R N Zobel), UCNW Bangor, 114-119.
47. 1987, Jones, DI, Owens, AR, Owen, RG, Wyn-Roberts, DD, Robinson, AA, *A microgravity isolation mount*, Proc 21st Aerospace Mechanisms Conf, NASA Johnson Space Center, Houston, 35-54.
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51. 1988, Jones, DI, Pattullo, AW, Paul, RJA, *Assessment of eddy-current effects in the mixed-mu levitation system*, Proc 10th Int Conf on Magnetically Levitated Systems, Hamburg, Germany, 361-370.
52. 1989, Fleming, PJ, Jones, DI, Jones, SR, *Parallel processing architectures and applications for real-time control*, Proc American Control Conference, Pittsburgh, USA, 2708-2714.
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54. 1989, Owen, RG, Jones, DI, Owens, AR, Robinson, AA, *Integration of a microgravity isolation mount (MGIM) within a Columbus single rack*, Proc 40th Congress of the International Astronautical Federation, Malaga, Spain, Paper IAF-89-428.
55. 1990, da Fonseca, PNF, Entwistle, PM, Jones, DI, *A transputer based processor farm for real-time control applications*, in "Applications of Transputers - 2", Pritchard, DJ & Scott, CJ (eds), IOS Press, 140-147.

56. 1990, Entwistle, PM, da Fonseca, PNF, Jones, DI, *Task scheduling for a transputer based multiprocessor with applications in control engineering*, Proc Int Workshop on Algorithms & Parallel VLSI Architectures, Pont a Mousson, France, Part B, 260-263.
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60. 1990, Owen, RG, Jones, DI, Owens, AR, Robinson, AA, *Mechanical design and simulation of a microgravity isolation mount for Columbus*, Paper AIAA-90-3628, AIAA Space Programs & Technologies Conference, Huntsville, USA.
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63. 1991, Ruano, AEB, Fleming, PJ, Jones, DI, *A connectionist approach to PID tuning*, Proc IEE Conf CONTROL'91, Edinburgh, IEE Conf Pub No 332, 762-767.
64. 1991, Ruano, AEB, Fleming, PJ, Jones, DI, *A new learning algorithm for neural networks*, Proc IEEE Conference on Decision & Control, Brighton, 865-866.
65. 1991, Ruano, AEB, Jones, DI, Fleming, PJ, *A neural network controller*, Proc 1st IFAC Workshop on "Algorithms and Architectures for Real-Time Control", Bangor, Pergamon Press, 27-32.
66. 1991, Solano, J, Jones, DI, *Implementation on multiple transputers of a configuration space approach to robot obstacle avoidance*, in "Applications of Transputers - 3", Durrani, TS et al (eds), IOS Press, Vol. 1, 168-173.
67. 1991, York, M, Jones, DI, *Investigation of a light, redundant manipulator for in-orbit applications*, Proc IEE Conf CONTROL'91, Edinburgh, IEE Conf Pub No 332, 1212-1217.
68. 1992, Nati, M, Robinson, AA, Jones, DI, Provenzano, JP, Zier, M, *MGIM - an isolation mount for the space station payload*, 1st International Symposium on Microdynamics & High Precision Pointing, Nice, France.
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84. 1997, Ginis, C, Jones, DI, *Static scheduling using clustering and task duplication*, Proc 4th IFAC Workshop on Algorithms & Architectures for Real-Time Control, Algarve, 129-134.
85. 1999, Mansoor, SP, Jones, DI, Bradley, DA, Aris, FC, Jones, GR, *Stability of a pump storage hydro-power station connected to a power system*, IEEE Power Engineering Society Winter Meeting, New York, 646-650.
86. 1999, Mansoor, SP, Jones, DI, Bradley, DA, Aris, FC, Jones, GR, *Modelling of a pump storage hydro power station used for stability studies*, Third International Conference on Hydropower into the Next Century, Gmunden, Austria, 535-544.
87. 1999, Mansoor, SP, Jones, DI, Bradley, DA, Aris, FC, Jones, GR, *Simulation of oscillatory behaviour at Dinorwig pump storage hydro power station*, Third International Conference on Hydropower into the Next Century, Gmunden, Austria, 587-594.
88. 1999, Jones, DI, *Computer simulation of a water scoop mechanism*, Proc Irish Signals & Systems Conference, Galway, Ireland, 111-118.
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97. 2003, Jones, DI, Whitworth, CC, Duller, AWG, *Image processing methods for the visual location of power line poles*, Proc. Irish Machine Vision and Image Processing Conference IMVIP2003, Portrush, Northern Ireland, 177-184.
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116. 2004, Jones, DI, *Parallel Computing for Real-Time Signal Processing and Control*, Book Review in "International Journal of Robust and Nonlinear Control", 18(6), 547-550.

Patents

117. 2003, Jones, DI, *Power line inspection vehicle*, Patent application 0311138.2 filed 15th May 2003.

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