

Short CV for P. G. Howlett

Academic Qualifications

B.Sc. (Hons); (1965) Adelaide; Ph.D.; (1971) Adelaide

Current Employment

Professor of Industrial and Applied Mathematics, UniSA.

Recent Professional Experience

1998-99 Executive Committee Member, ANZIAM.
1998 Director, CIAM.
2000-03 Director/Deputy Director, Australian MISG.
2002 Theme Leader, Rail CRC.

Professional Societies

Member of the Australian Mathematical Society and ANZIAM.

Prizes and Awards

1989 National Energy Innovation Award (Transport Control Group).
1993 Finalist, Applications Prize, 12th World Congress IFAC, Sydney Australia.
1999 Race Strategist for Aurora 101, Winner World Solar Challenge.
2000 Finalist, RTSA, Railway Engineering Industry Award 2000 with Siemens and ICT) for *Metromiser*.
2000 Australia Technology Award, Technology Development from the Government Sector, UniSA with Siemens and ICT for *Development of Metromiser Technology*.

Publications since 1990

Includes 2 books (one in preparation), 10 book chapters, 36 refereed journal articles, 4 reports for MISG and numerous invited lectures and conference presentations.

Research Grants

1987-88	NERDDC Contract No. E054, (Transport Control Group)	\$232,030
1989-90	NERDDC Contract No. 1326 (Transport Control Group)	\$178,330
1991-93	GIRD Grant Contract No.16025 (Scheduling and Control Group)	\$500,000
1993	CSIRO/UniSA Cost Centre 8212, (Scheduling & Control Group)	\$25,000
1994-96	ARC Collaborative Research Grant #C19380166	\$155,000
1995	UniSA Research Development Grant, UniSA Cost Centre 85438	\$15,000
1996	UniSA Research Development Grant, UniSA Cost Centre 85474	\$15,000
1997	UniSA Research Development Grant, UniSA Cost Centre 85361	\$18,000
1997	ARC Small Grant, UniSA Cost Centre 80343	\$23,000
1998	ARC Small Grant, UniSA Cost Centre 80355	\$20,000
1998-00	ARC SPIRT Grant #C69804762	\$260,652
1999-01	ARC Large Grant #A49943121 (with C.E.M.Pearce)	\$179,119
2000-02	ARC Large Grant #A00000767 (with J.A.Filar & V. Gaitsgory)	\$153,000
2000-04	ARC SPIRT Grant #C49906841 (with J. Boland, D. Mulcahy & J. McKay)	\$231,480
2000	ISR Technology Diffusion Grant (with D. Panton)	\$125,080
2001-2007	Rail CRC, Program Leader (with other Universities)	\$11,200,000
2002	ATN Small Grant	\$18,500
2003	UniSA Research Development Grant	\$20,000
2004-2006	ARC Discovery Grant #DP0453236 (with C.E.M.Pearce)	\$180,000

Research Interests

Control theory, optimization, linear/non-linear operators, energy-efficient control of trains and solar cars.