Postdoctoral Research Fellow Opportunity at the University of Melbourne:

A postdoctoral research fellow with a solid background in applied mathematics (or equivalent) is sought to conduct mathematical systems theory research in the area of optimal control for continuous time nonlinear dynamical systems, with an emphasis on the development of new theory and computationally efficient methods arising from the analysis and application of Pontryagin’s minimum principle, dynamic programming and Hamilton-Jacobi-Bellman partial differential equations. An initial appointment for one year is available.

Your profile:
- A PhD in Applied Mathematics or Electrical Engineering, or equivalent.
- A proven track record in quality research commensurate with experience, as evidenced by research publications in the top systems theory journals and conferences.
- Solid working knowledge of optimal control theory, including Pontryagin’s minimum principle, dynamic programming, and/or Hamilton-Jacobi-Bellman partial differential equations.
- An understanding of functional analysis.
- Exposure to abstract algebra, convex analysis, optimization, and / or the development of numerical methods is desirable.

Additional Information:
The successful candidate will be affiliated with the Control and Signal Processing Laboratory in the Department of Electrical & Electronic Engineering at the University of Melbourne, and will report to Associate Professor Peter Dower.

How to Apply:
Your application should include a Cover Letter and Resume. With your application, we ask that you briefly outline your experience against the selection criteria in the position description.

Submission details (including selection criteria and position description) can be found on the University of Melbourne jobs page http://jobs.unimelb.edu.au/ (search for “optimal control”).

For further information concerning application submission, please contact Lyn Buchanan (lynb@unimelb.edu.au). For further information concerning the research, please contact Associate Professor Peter Dower (pdower@unimelb.edu.au).