

PERSONAL INFORMATION

- Name: Mohsen Zamani.
- Date of Birth: 21st September 1985.
- Marital Status: Married.
- University: Australian National University.
- Faculty: Research School of Engineering.
- Address: Building 115, Australian National University, Canberra, Australia, ACT 0200.
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EDUCATION

- PhD candidate under supervision of Prof. Brian. D. O. Anderson in Research School of Engineering, Australian National University, Canberra, Australia, August 2010-present (tentative submission data 15.2.2014)
- Master of Engineering in Electrical Engineering, National University of Singapore, Singapore.
- M. Eng thesis on *coordination and formation control of multi-robotic systems*, under supervision of Dr. Lin Hai & A/P Tan Woei Wan, National University of Singapore, Singapore.
- B.Sc. in Electrical Engineering, Shiraz University of Technology.
- B.Sc. Project on *one phase to three phase inverter with nominal rate of 220v & 6600 w up to 10 kHz output with PWM method*, under supervision of N. A. Ghanbari, Shiraz University Of Technology.
- Diploma: Electronics, (Shahid Beheshti Technical School), Shiraz .

PUBLICATIONS

Journal papers

1. M. Zamani, G. Bottegal, and B. D. O. Anderson, *on the zero-freeness of tall multirate linear systems*, *IEEE Transactions on Automatic Control*, 2013 (submitted).
2. E. Felsenstein, B. Funovits, M. Deistler, B. D. O. Anderson, M. Zamani, and W. Chen, *regular and singular multivariate autoregressive models and mixed frequency data: identifiability and consistent estimation*, *Journal of Econometric Theory*, 2013 (submitted).
3. M. Zamani, B. D. O. Anderson, U. Helmke, and W. Chen, *on the zeros of blocked time-invariant systems*, *Systems and Control Letters*, 62 (7), pages 597-603, 2013.

Book chapters

1. B. D. O. Anderson, M. Zamani, and G. Bottegal, *on the zero properties of tall linear systems with single-rate and multirate outputs* "Mathematical System Theory-Festschrift in Honor of Uwe Helmke on the Occasion of his Sixtieth Birthday", K. Huper and J. Trumpf, Eds., pages 31-49, Create Space, 2013.

Conference papers

1. M. Zamani, U. Helmke, and B. D. O. Anderson, *zeros of networks of linear multi-agent systems: time-invariant interconnections*, *Conference on Decision and Control (CDC)*, 2013 (to appear).
2. M. Zamani, G. Bottegal, and B. D. O. Anderson, *on the properties of linear multirate systems with coprime output*

- rates*, Conference on Decision and Control (CDC), 2013 (to appear).
3. M. Zamani, and B. D. O. Anderson, *on modeling of tall linear systems with multirate outputs*, Asian Control Conference (ASCC), 2013 (Finalist of Young Author Award).
 4. M. Zamani, E. Felsenstein, B. D. O. Anderson, and M. Deistler, *mixed frequency structured AR model identification*, European Control Conference (ECC), pages 1928-1933, 2013.
 5. B. D. O. Anderson, M. Deistler, E. Felsenstein, B. Funovits, P. Zadrozny, M. Eichler, W. Chen, and M. Zamani, *identifiability of regular and singular multivariate autoregressive models from mixed frequency data*, Conference on Decision and Control (CDC), pages 184-189, 2012.
 6. M. Zamani, B. D. O. Anderson, U. Helmke, and W. Chen, *on zeros of tall, fat and square blocked time-invariant systems*, International Symposium on Mathematical Theory of Networked and Systems (MTNS), 2012.
 7. M. Zamani, and B. D. O. Anderson, *on the zero properties of linear discrete-time systems with multirate outputs*, American Control Conference (ACC), pages 5182-5187, 2012.
 8. M. Zamani, W. Chen, B. D. O. Anderson, M. Deistler and A. Filler, *on the blocked systems of linear systems with mixed frequency data*, Conference on Decision and Control (CDC), pages 4312-4317, 2011 (invited).
 9. M. Zamani, H. Lin, *weights' assignment in multi-agent systems under a time-varying topology*, Advanced Intelligent Mechatronics Conference (AIM), pages 746-751, 2009.
 10. M. Zamani, H. Lin, *structural controllability of multi-agent Systems*, American Control Conference (ACC), pages 5743-5748, 2009.

11. H.Nejati, Z. Azimifar, M. Zamani, *crop field weed detection using fast Fourier transform*, System Mans and Cybernetics Conference (SMC), pages 1215-1219, 2008.
12. M. Zamani and et al., *toolbox for interval type-2 fuzzy logic system*, 11th joint Conference on Information Science, 2008.

PATENTS

1. *Intelligent herbicide sprayer by image processing method*, September 2006.
2. *Pulse current source for multi layer coating*, May 2006.

HONOR & AWARDS

1. IEEE-CSS Student Travel Support, September 2013.
2. Finalist of Young Author Award, Asian Control Conference, June 2013.
3. Vice Chancellor's Travel Grant, 2012 (two times).
4. ANU Scholarship (top-up), January 2012.
5. ANU PhD Scholarship, August 2010.
6. ANU-HDR Merit Scholarship, August 2010.
7. 30th rank, *Iranian nationwide A.S to B.Sc. entrance exam*, September 2004.
8. 4th rank, *Iranian nationwide A.S entrance exam*, September 2002.

ACADEMIC VISITS

1. ACCESS Linnaeus Centre, Royal Institute of Technology (KTH), July 2013 (two weeks).
2. Institute for Mathematics, Vienna University of Technology, May 2013 (two weeks).
3. Institute for Mathematics, University of Wuerzburg, April 2012 (one month).
4. Institute for Mathematics, Vienna University of Technology, May 2012 (one month).

TEACHING

1. Power Electronics (ENGN4625), Australian National University, spring semester 2013.
2. Introduction to Electronics (ENGN1218), Australian National University, spring semester 2013.
3. Control Systems (ENGN3223) Australian National University, spring semester 2012.
4. Power Electronics (ENGN4625), Australian National University, spring semester 2012.
5. Power Electronics (ENGN4625), Australian National University, spring semester 2011.
6. MATLAB and LABVIEW for Electrical Engineers (EE2001), Electrical & Computer Engineering Dept., National University of Singapore, spring semester 2008.

7. Digital Design (EE2006), Electrical & Computer Engineering Dept., National University of Singapore, fall semester 2008.
8. Microcontrollers, School of Engineering, Shiraz University Of Technology, Fall Semester 2005.

PROFESSIONAL MEMBERSHIPS

1. IEEE student member.
2. Asian Control Association.
3. Reviewer of Automatica, International Journal of Control, IEEE Transactions on Automatic Control, American Control Conference, Advanced Intelligent Mechatronics Conference, IEEE Multi-Conference on System and Control, European Control Conference, Australian Control Conference.

TALKS

1. European Control Conference, Zurich, Switzerland, July 2013.
2. Asian Control Conference, Istanbul, Turkey, June 2013.
3. International Symposium on Mathematical Theory of Networked and Systems, Melbourne, Australia, June 2012.
4. Institute for Mathematics, University of Wuerzburg, April 2012.
5. Workshop in System, Control and Signal Processing, Australian National University, April 2011.
6. Systems Man and Cybernetics Workshop, Singapore, 2009.

REFERENCES

References can be provided upon request.